

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: December 4, 2003, 14:31:50 ; Search time 35.2613 Seconds

(without alignments)  
741.553 Million cell updates/sec

Title: US-08-569-749-2

Perfect score: 3277

Sequence: 1 MHKTASQRLFPGPSYQNIKS.....LRKCRIGIKGIVRTPLS 618

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

328717

## ALIGNMENTS

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: /cgn2\_6/ptodata/1/aa/5A.COMB.pep:\*  
2: /cgn2\_6/ptodata/1/aa/5B.COMB.pep:\*  
3: /cgn2\_6/ptodata/1/aa/6A.COMB.pep:\*  
4: /cgn2\_6/ptodata/1/aa/6B.COMB.pep:\*  
5: /cgn2\_6/ptodata/1/aa/PCTUS.COMB.pep:\*  
6: /cgn2\_6/ptodata/1/aa/backfiles1.pep:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3277	100.0	618	3	US-08-569-749-2
2	3277	100.0	618	4	US-09-069-023-29
3	3277	100.0	618	5	PCT-US96-12860-2
4	3247	99.1	618	2	US-08-511-485-8
5	3247	99.1	618	3	US-09-212-971-8
6	3247	99.1	618	4	US-08-800-929A-8
7	3247	99.1	618	5	US-09-617-053A-8
8	3247	99.1	618	6	US-09-201-936-8
9	2728	83.2	612	3	US-08-569-749-14
10	2728	83.2	612	5	PCT-US96-12860-14
11	2724	83.1	612	3	US-09-212-971-14
12	2724	83.1	612	3	US-08-800-929A-14
13	2724	83.1	612	4	US-09-617-053A-14
14	2654	81.0	591	4	US-09-201-936-42
15	2353	71.8	604	3	US-08-569-749-4
16	2353	71.8	604	5	PCT-US96-12860-4
17	2332	71.2	604	2	US-08-511-485-6
18	2332	71.2	604	3	US-09-212-971-6
19	2332	71.2	604	3	US-08-800-929A-6
20	2332	71.2	604	4	US-09-617-053A-6
21	2332	71.2	604	4	US-09-201-936-6
22	2326	71.0	438	5	PCT-US95-05922A-2
23	2172	66.3	600	3	US-09-212-971-12
24	2172	66.3	600	3	US-08-800-929A-12
25	2172	66.3	600	4	US-09-617-053A-12
26	2152	65.7	602	4	US-09-201-936-40
27	909	27.7	497	2	US-08-511-485-4

28	909	27.7	497	3	US-09-212-971-4	Sequence 4, Appli
29	909	27.7	497	3	US-08-800-929A-4	Sequence 4, Appli
30	909	27.7	497	4	US-09-617-053A-4	Sequence 4, Appli
31	909	27.7	497	4	US-09-201-936-4	Sequence 4, Appli
32	908	27.7	497	4	US-08-657-759-2	Sequence 2, Appli
33	874	26.7	496	2	US-08-511-485-10	Sequence 10, Appli
34	874	26.7	496	3	US-09-212-971-10	Sequence 10, Appli
35	874	26.7	496	3	US-08-800-929A-10	Sequence 10, Appli
36	874	26.7	496	4	US-09-617-053A-10	Sequence 10, Appli
37	874	26.7	496	4	US-09-201-936-10	Sequence 10, Appli
38	737	22.5	497	2	US-08-657-759-1	Sequence 1, Appli
39	736.5	22.5	498	2	US-08-511-485-13	Sequence 13, Appli
40	736.5	22.5	498	4	US-09-201-936-13	Sequence 13, Appli
41	513	15.7	268	3	US-08-836-134-22	Sequence 22, Appli
42	513	15.7	268	4	US-09-493-784-22	Sequence 22, Appli
43	492.5	15.0	236	4	US-09-239-867-4	Sequence 4, Appli
44	466.5	14.2	377	4	US-09-502-528-3	Sequence 3, Appli
45	463	14.1	1151	3	US-08-836-134-23	Sequence 23, Appli

RESULT 1  
US-08-569-749-2  
Sequence 2, Application US/08569749  
Patent No. 6187557  
GENERAL INFORMATION:  
APPLICANT: Rothe, Mike  
TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
FLEHR, HOBBACH, TEST, ALBRITTON & HERBERT  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/569,749  
FILING DATE:  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Brezner, David J.  
REGISTRATION NUMBER: 24,774  
REFERENCE/DOCKET NUMBER: A-62464/DJB  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415)781-1989  
TELEFAX: (415)398-3249  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 618 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-569-749-2  
Query Match 100.0%; Score 3277; DB 3; Length 618;  
Best Local Similarity 100.0%; Pred. No. 4.8e-308;  
Matches 618; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MHKTASQRLFPGPSYQNIKSIMEDSTILSDWTNSNKKMKYDFSCELYRMSTYSTPPAGV 60  
DB 1 MHKTASQRLFPGPSYQNIKSIMEDSTILSDWTNSNKKMKYDFSCELYRMSTYSTPPAGV 60  
QY 61 PVSERSLARAGFYTYGVNDKVCRCGGLMDNMKLGDSPIQKHQQLYPSCSFIQNLVSAS 120

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Db 61 PVSERSIARAGFYITGVNDKVCFCGGLMDNMLGDSPIQKHQOLPSCSFIQNLVSAS 120
Qy 121 LGSTKNTSPMRNSFAHSLSPLEHSSLPFGSGYSSLSPPNPLNSRAVEDISSRTNPYSYA 180
Db 121 LGSTKNTSPMRNSFAHSLSPLEHSSLPFGSGYSSLSPPNPLNSRAVEDISSRTNPYSYA 180
Qy 181 MSTERARFLTYHWPPLTFPSSEIARAGFYITGGGRVACFCGGLSNMPEKDDAMSEH 240
Db 181 MSTERARFLTYHWPPLTFPSSEIARAGFYITGGGRVACFCGGLSNMPEKDDAMSEH 240
Qy 241 RRHPNCPFLNLSLETLRFSISNLSMOTHAARMTFMWPSVVPQPEOLASAGFYVGR 300
Db 241 RRHPNCPFLNLSLETLRFSISNLSMOTHAARMTFMWPSVVPQPEOLASAGFYVGR 300
Qy 301 NDVVKCFCCDGGIARCWESGDDPWVEHAKWPRCEFLIRKNGQFVDEIQGRYPHLLBQL 360
Db 301 NDVVKCFCCDGGIARCWESGDDPWVEHAKWPRCEFLIRKNGQFVDEIQGRYPHLLBQL 360
Qy 361 STSDTTGEENADPPIIHFGPGESSSDAVMMNTPVKSALEMGNFNDLVKQTVQSKILTT 420
Db 361 STSDTTGEENADPPIIHFGPGESSSDAVMMNTPVKSALEMGNFNDLVKQTVQSKILTT 420
Qy 421 GENYKTVNDIVSALINADEKREBEKEKQAEWASDDLILIRKNMALFOQLTCVLPILD 480
Db 421 GENYKTVNDIVSALINADEKREBEKEKQAEWASDDLILIRKNMALFOQLTCVLPILD 480
Qy 481 NLKANVINKEHDIHKQTOIPLQARELIDTILVKGNAANIFKNCLEIKIDSTLYKNLF 540
Db 481 NLKANVINKEHDIHKQTOIPLQARELIDTILVKGNAANIFKNCLEIKIDSTLYKNLF 540
Qy 541 VDKMKYIPTEVDVSGLSLEBQLRLOEBRTCKVCMDEKSVVFIPEGHLVVCQECAPSIR 600
Db 541 VDKMKYIPTEVDVSGLSLEBQLRLOEBRTCKVCMDEKSVVFIPEGHLVVCQECAPSIR 600
Qy 601 KCPICRGIIKGTVRTPLS 618
Db 601 KCPICRGIIKGTVRTPLS 618

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RESULT 2
US-09-069-023-29
; Sequence 29, Application US/09069023A
; Patent No. 6348573
; GENERAL INFORMATION:
; APPLICANT: Nunez, Gabriel
; APPLICANT: Inohara, Naohiro
; APPLICANT: Koseki, Takeyoshi
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR IDENTIFYING APOPTOSIS
; TITLE OF INVENTION: SIGNALING PATHWAY INHIBITORS AND ACTIVATORS
; FILE REFERENCE: UM-03333
; CURRENT APPLICATION NUMBER: US/09/069, 023A
; CURRENT FILING DATE: 1998-04-27
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 29
; LENGTH: 618
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-069-023-29

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Query Match 100.0%; Score 3277; DB 4; Length 618;
Best Local Similarity 100.0%; Pred. No. 4.8e-308;
Matches 618; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 MHKTASORLPFGSPYONIKSIMEDSTILSDWTNSNKQMKIDFSCELYRMTYSTPAGV 60
Db 1 MHKTASORLPFGSPYONIKSIMEDSTILSDWTNSNKQMKIDFSCELYRMTYSTPAGV 60
Qy 61 PVSERSIARAGFYITGVNDKVCFCGGLMDNMLGDSPIQKHQOLPSCSFIQNLVSAS 120
Db 61 PVSERSIARAGFYITGVNDKVCFCGGLMDNMLGDSPIQKHQOLPSCSFIQNLVSAS 120

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Qy 121 LGSTKNTSPMRNSFAHSLSPLEHSSLPFGSGYSSLSPPNPLNSRAVEDISSRTNPYSYA 180
Db 121 LGSTKNTSPMRNSFAHSLSPLEHSSLPFGSGYSSLSPPNPLNSRAVEDISSRTNPYSYA 180
Qy 181 MSTERARFLTYHWPPLTFPSSEIARAGFYITGGGRVACFCGGLSNMPEKDDAMSEH 240
Db 181 MSTERARFLTYHWPPLTFPSSEIARAGFYITGGGRVACFCGGLSNMPEKDDAMSEH 240
Qy 241 RRHPNCPFLNLSLETLRFSISNLSMOTHAARMTFMWPSVVPQPEOLASAGFYVGR 300
Db 241 RRHPNCPFLNLSLETLRFSISNLSMOTHAARMTFMWPSVVPQPEOLASAGFYVGR 300
Qy 301 NDVVKCFCCDGGIARCWESGDDPWVEHAKWPRCEFLIRKNGQFVDEIQGRYPHLLBQL 360
Db 301 NDVVKCFCCDGGIARCWESGDDPWVEHAKWPRCEFLIRKNGQFVDEIQGRYPHLLBQL 360
Qy 361 STSDTTGEENADPPIIHFGPGESSSDAVMMNTPVKSALEMGNFNDLVKQTVQSKILTT 420
Db 361 STSDTTGEENADPPIIHFGPGESSSDAVMMNTPVKSALEMGNFNDLVKQTVQSKILTT 420
Qy 421 GENYKTVNDIVSALINADEKREBEKEKQAEWASDDLILIRKNMALFOQLTCVLPILD 480
Db 421 GENYKTVNDIVSALINADEKREBEKEKQAEWASDDLILIRKNMALFOQLTCVLPILD 480
Qy 481 NLKANVINKEHDIHKQTOIPLQARELIDTILVKGNAANIFKNCLEIKIDSTLYKNLF 540
Db 481 NLKANVINKEHDIHKQTOIPLQARELIDTILVKGNAANIFKNCLEIKIDSTLYKNLF 540
Qy 541 VDKMKYIPTEVDVSGLSLEBQLRLOEBRTCKVCMDEKSVVFIPEGHLVVCQECAPSIR 600
Db 541 VDKMKYIPTEVDVSGLSLEBQLRLOEBRTCKVCMDEKSVVFIPEGHLVVCQECAPSIR 600
Qy 601 KCPICRGIIKGTVRTPLS 618
Db 601 KCPICRGIIKGTVRTPLS 618

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RESULT 3
PCT-US96-12860-2
; Sequence 2, Application PC/TUS9612860
; GENERAL INFORMATION:
; APPLICANT: TULARIK, INC.
; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FLHER, HOBACH, TEST, ALBRITTON & HERBERT
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US96/12860
; FILING DATE: 06 AUG 1996
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial Nos. 08/512,946 & 08/569,749
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Breznar, David J.
; REGISTRATION NUMBER: 24,774
; REFERENCE/DOCKET NUMBER: A-62464/DJB
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415)781-1989
; TELEFAX: (415)398-3249
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 618 amino acids

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TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
PCT-US96-12860-2

Query Match 100.0%; Score 3277; DB 5; Length 618;  
Best Local Similarity 100.0%; Pred. No. 4,86-308;  
Matches 618; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MHKASQRLFPGPSYONIKSIMEDSTLLSDWTNSNKKMKYDFSCELYRMSTYSTPAGV 60
DB 1 MHKASQRLFPGPSYONIKSIMEDSTLLSDWTNSNKKMKYDFSCELYRMSTYSTPAGV 60
QY 61 PVSESLARAGFYTYGVNDKVCFCGGLMDWKLGDSP1QKHQOLYPSGCFIQLVLSAS 120
DB 61 PVSESLARAGFYTYGVNDKVCFCGGLMDWKLGDSP1QKHQOLYPSGCFIQLVLSAS 120
QY 121 LGSTKNTSPMKNPSFAHSLPTLEHSSLFSGSYSSLSPNLSRAVBDISSRTNPYSYA 180
DB 121 LGSTKNTSPMKNPSFAHSLPTLEHSSLFSGSYSSLSPNLSRAVBDISSRTNPYSYA 180
QY 181 MSTEARFLTYHWPDLTFLSPSELARAGFYIIGPDVACFACGKLSNWEKXDAMSEH 240
DB 181 MSTEARFLTYHWPDLTFLSPSELARAGFYIIGPDVACFACGKLSNWEKXDAMSEH 240
QY 241 RRHPNCPLENSLETFLRFSISNLSMOTHAARMRTFMTWPSVVPQBPQLASAGFYVGR 300
DB 241 RRHPNCPLENSLETFLRFSISNLSMOTHAARMRTFMTWPSVVPQBPQLASAGFYVGR 300
QY 301 NDDVYCFCCDGLRCWESGDDPWVHAHWPFCRCEFLIRMGKJGFDEIOGRYPHLEQL 360
DB 301 NDDVYCFCCDGLRCWESGDDPWVHAHWPFCRCEFLIRMGKJGFDEIOGRYPHLEQL 360
QY 361 STSDTTEENADPPIIHFGGESSSEDAVMNTPVVKSALEMGFNRDLVQTVOSKILTT 420
DB 361 STSDTTEENADPPIIHFGGESSSEDAVMNTPVVKSALEMGFNRDLVQTVOSKILTT 420
QY 421 GENTYVNDIVSALINADEKREBEKEKQAEEMASDDLSTLRKNMALFOQLTCLPLTD 480
DB 421 GENTYVNDIVSALINADEKREBEKEKQAEEMASDDLSTLRKNMALFOQLTCLPLTD 480
QY 481 NLKANVINKEHDIKQKQIPIQARLIDTILVKGNAANIPKCLKEIDSTLYKNLF 540
DB 481 NLKANVINKEHDIKQKQIPIQARLIDTILVKGNAANIPKCLKEIDSTLYKNLF 540
QY 541 VDKMKYIPTEDVSGLSLEQLRLQEBRTCKVCMDEKESVVFIPCGHLVVCOCAPSLR 600
DB 541 VDKMKYIPTEDVSGLSLEQLRLQEBRTCKVCMDEKESVVFIPCGHLVVCOCAPSLR 600
QY 601 KCPICGIIKGTVRTFLS 618
DB 601 KCPICGIIKGTVRTFLS 618

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RESULT 4

US-08-511-485-8  
Sequence 8, Application US/08511485

Patent No. 5919912  
GENERAL INFORMATION:  
APPLICANT: Korneluk, Robert G.  
APPLICANT: Mackenzie, Alexander E.  
TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY, PRIMERS,  
NUMBER OF SEQUENCES: 38  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02110-2804

COMPUTER READABLE FORM:  
MEDIUM TYPE: floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/511,485  
FILING DATE: 04-AUG-1995  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Clark, Paul T.  
REGISTRATION NUMBER: 30,162  
REFERENCE/DOCKET NUMBER: 07540/002001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/542-5070  
TELEFAX: 617/542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 618 amino acids  
TYPE: amino acid  
STRANDEDNESS: not relevant  
TOPOLOGY: both  
MOLECULE TYPE: protein  
US-08-511-485-8

Query Match 99.1%; Score 3247; DB 2; Length 618;  
Best Local Similarity 99.4%; Pred. No. 3,86-305;  
Matches 614; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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QY 1 MHKASQRLFPGPSYONIKSIMEDSTLLSDWTNSNKKMKYDFSCELYRMSTYSTPAGV 60
DB 1 MHKASQRLFPGPSYONIKSIMEDSTLLSDWTNSNKKMKYDFSCELYRMSTYSTPAGV 60
QY 61 PVSESLARAGFYTYGVNDKVCFCGGLMDWKLGDSP1QKHQOLYPSGCFIQLVLSAS 120
DB 61 PVSESLARAGFYTYGVNDKVCFCGGLMDWKLGDSP1QKHQOLYPSGCFIQLVLSAS 120
QY 121 LGSTKNTSPMKNPSFAHSLPTLEHSSLFSGSYSSLSPNLSRAVBDISSRTNPYSYA 180
DB 121 LGSTKNTSPMKNPSFAHSLPTLEHSSLFSGSYSSLSPNLSRAVBDISSRTNPYSYA 180
QY 181 MSTEARFLTYHWPDLTFLSPSELARAGFYIIGPDVACFACGKLSNWEKXDAMSEH 240
DB 181 MSTEARFLTYHWPDLTFLSPSELARAGFYIIGPDVACFACGKLSNWEKXDAMSEH 240
QY 241 RRHPNCPLENSLETFLRFSISNLSMOTHAARMRTFMTWPSVVPQBPQLASAGFYVGR 300
DB 241 RRHPNCPLENSLETFLRFSISNLSMOTHAARMRTFMTWPSVVPQBPQLASAGFYVGR 300
QY 301 NDDVYCFCCDGLRCWESGDDPWVHAHWPFCRCEFLIRMGKJGFDEIOGRYPHLEQL 360
DB 301 NDDVYCFCCDGLRCWESGDDPWVHAHWPFCRCEFLIRMGKJGFDEIOGRYPHLEQL 360
QY 361 STSDTTEENADPPIIHFGGESSSEDAVMNTPVVKSALEMGFNRDLVQTVOSKILTT 420
DB 361 STSDTTEENADPPIIHFGGESSSEDAVMNTPVVKSALEMGFNRDLVQTVOSKILTT 420
QY 421 GENTYVNDIVSALINADEKREBEKEKQAEEMASDDLSTLRKNMALFOQLTCLPLTD 480
DB 421 GENTYVNDIVSALINADEKREBEKEKQAEEMASDDLSTLRKNMALFOQLTCLPLTD 480
QY 481 NLKANVINKEHDIKQKQIPIQARLIDTILVKGNAANIPKCLKEIDSTLYKNLF 540
DB 481 NLKANVINKEHDIKQKQIPIQARLIDTILVKGNAANIPKCLKEIDSTLYKNLF 540
QY 541 VDKMKYIPTEDVSGLSLEQLRLQEBRTCKVCMDEKESVVFIPCGHLVVCOCAPSLR 600
DB 541 VDKMKYIPTEDVSGLSLEQLRLQEBRTCKVCMDEKESVVFIPCGHLVVCOCAPSLR 600
QY 601 KCPICGIIKGTVRTFLS 618
DB 601 KCPICGIIKGTVRTFLS 618

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RESULT 5  
US-09-212-971-8  
Sequence 8, Application US/09212971B  
Patent No. 6107041  
GENERAL INFORMATION:  
APPLICANT: Korneluk, Robert G  
APPLICANT: Mackenzie, Alexander E  
APPLICANT: Liscon, Peter  
APPLICANT: Baird, Stephen  
APPLICANT: Tsang, Benjamin K  
APPLICANT: Pratt, Christine  
TITLE OF INVENTION: DETECTION AND MODULATION OF IAPs AND  
TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
FILE REFERENCE: 07891/009002  
CURRENT APPLICATION NUMBER: US/09/212,971B  
CURRENT FILING DATE: 1998-12-16  
EARLIER APPLICATION NUMBER: 60/017,354  
EARLIER FILING DATE: 1996-04-26  
EARLIER APPLICATION NUMBER: 60/030,590  
EARLIER FILING DATE: 1996-11-14  
EARLIER APPLICATION NUMBER: 08/800,929  
NUMBER OF SEQ ID NOS: 17  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 8  
LENGTH: 618  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-212-971-8

Query Match  
Best Local Similarity 99.1%; Score 3247; DB 3; Length 618;  
Matches 614; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MHTASQRLFPGSPYONIKSIMEDSTILSDWTNSNKKOMKXDFSCELYRMSTYSTPAGV 60  
DB 1 MHTASQRLFPGSPYONIKSIMEDSTILSDWTNSNKKOMKXDFSCELYRMSTYSTPAGV 60  
QY 61 PVSERSIARAGFYTYGVNDKVCFCGGLMLDNMKLGSPIQKHQOLYPSCSFIQNLVSAS 120  
DB 61 PVSERSIARAGFYTYGVNDKVCFCGGLMLDNMKLGSPIQKHQOLYPSCSFIQNLVSAS 120  
QY 121 LGSTSXYTSPWRNSFAHSLPTLHSSLSFGSYSLSPNPLNSRAVEDISSRTNPSYA 180  
DB 121 LGSTSXYTSPWRNSFAHSLPTLHSSLSFGSYSLSPNPLNSRAVEDISSRTNPSYA 180  
QY 121 LGSTSXYTSPWRNSFAHSLPTLHSSLSFGSYSLSPNPLNSRAVEDISSRTNPSYA 180  
DB 121 LGSTSXYTSPWRNSFAHSLPTLHSSLSFGSYSLSPNPLNSRAVEDISSRTNPSYA 180  
QY 181 MSTEAPFLTYHMPPLTFPLSPSELARAGFYIIGPDRVACACGKLSNMEPKODAMSEH 240  
DB 181 MSTEAPFLTYHMPPLTFPLSPSELARAGFYIIGPDRVACACGKLSNMEPKODAMSEH 240  
QY 241 RRHFPNCPFLSNSLETJREFSISNLSMOTHAARMTPWPSVVOBQOLASAFYVGR 300  
DB 241 RRHFPNCPFLSNSLETJREFSISNLSMOTHAARMTPWPSVVOBQOLASAFYVGR 300  
QY 301 NDDVYKCECGDGLRCWESGDDPWYEHAKWPRCEFLIRMKQOEVDLQGRYPHLLBQL 360  
DB 301 NDDVYKCECGDGLRCWESGDDPWYEHAKWPRCEFLIRMKQOEVDLQGRYPHLLBQL 360  
QY 301 NDDVYKCECGDGLRCWESGDDPWYEHAKWPRCEFLIRMKQOEVDLQGRYPHLLBQL 360  
DB 301 NDDVYKCECGDGLRCWESGDDPWYEHAKWPRCEFLIRMKQOEVDLQGRYPHLLBQL 360  
QY 361 STSPTTBENADPTIHFPGESSSEDAVMNTPVVSALMGFNRLDVQOTVOSKILTT 420  
DB 361 STSPTTBENADPTIHFPGESSSEDAVMNTPVVSALMGFNRLDVQOTVOSKILTT 420  
QY 421 GENKTYNDIVSALNNEDEKREBEKQAEEMASDDLIRKRMALFOOLTCVLILD 480  
DB 421 GENKTYNDIVSALNNEDEKREBEKQAEEMASDDLIRKRMALFOOLTCVLILD 480  
QY 481 NLKAVYINQEHDIIOKQTOIPLQARELIDTILVKGAAANIPKNCIKRIDSTLYNLF 540  
DB 481 NLKAVYINQEHDIIOKQTOIPLQARELIDTILVKGAAANIPKNCIKRIDSTLYNLF 540

QY 541 VDKMKYIPTEDVSGLSLEBQLRLQERTCKVCMDEKSVVFIPCGHLVVCCEAPSLR 600  
DB 541 VDKMKYIPTEDVSGLSLEBQLRLQERTCKVCMDEKSVVFIPCGHLVVCCEAPSLR 600  
QY 601 KCPICGIIKGTWTFELS 618  
DB 601 KCPICGIIKGTWTFELS 618

RESULT 6  
US-08-800-929A-8  
Sequence 8, Application US/08800929A  
Patent No. 6133437  
GENERAL INFORMATION:  
APPLICANT: Korneluk, Robert G  
APPLICANT: Mackenzie, Alexander E  
APPLICANT: Liscon, Peter  
APPLICANT: Baird, Stephen  
APPLICANT: Tsang, Benjamin K  
APPLICANT: Pratt, Christine  
TITLE OF INVENTION: DETECTION AND MODULATION OF  
TITLE OF INVENTION: IAPs AND NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Clark & Elbing LLP  
STREET: 176 Federal Street  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02110  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/800,929A  
FILING DATE: 13-FEB-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/030,590  
FILING DATE: 14-NOV-1996  
APPLICATION NUMBER: 60/017,354  
FILING DATE: 26-APR-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Bieker-Brady, Kristina  
REGISTRATION NUMBER:  
REFERENCE/DOCKET NUMBER: 07891/009001  
TELEPHONE: 617-428-0200  
TELEFAX: 617-428-7045  
TELEX:  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 618 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-800-929A-8

Query Match  
Best Local Similarity 99.1%; Score 3247; DB 3; Length 618;  
Matches 614; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MHTASQRLFPGSPYONIKSIMEDSTILSDWTNSNKKOMKXDFSCELYRMSTYSTPAGV 60  
DB 1 MHTASQRLFPGSPYONIKSIMEDSTILSDWTNSNKKOMKXDFSCELYRMSTYSTPAGV 60  
QY 61 PVSERSIARAGFYTYGVNDKVCFCGGLMLDNMKLGSPIQKHQOLYPSCSFIQNLVSAS 120  
DB 61 PVSERSIARAGFYTYGVNDKVCFCGGLMLDNMKLGSPIQKHQOLYPSCSFIQNLVSAS 120

QY 121 LGSTSKTSPMRNSFAHSLPTLHSSLSFGSGYSLSLSPNPLNSRAVEDISSRTNPYSYA 180  
 Db 121 LGSTSKTSPMRNSFAHSLPTLHSSLSFGSGYSLSLSPNPLNSRAVEDISSRTNPYSYA 180  
 QY 181 MSTEARFLTYHMPPLTFPLSPSELARAGFYIIGPGRVACFACGCKLSNMEPKDAMSEH 240  
 Db 181 MSTEARFLTYHMPPLTFPLSPSELARAGFYIIGPGRVACFACGCKLSNMEPKDAMSEH 240  
 QY 241 RRHPNCPFLNSLETIRFSISNLSMOTHAARMRTFMWESSVVOPEQLASAGFYVGR 300  
 Db 241 RRHPNCPFLNSLETIRFSISNLSMOTHAARMRTFMWESSVVOPEQLASAGFYVGR 300  
 QY 301 NNDVYKCCGCGLRCSWSSGDDPWVHAHAKWPRCEFLIRMGQEFVDEIQGRYPHLEQLL 360  
 Db 301 NNDVYKCCGCGLRCSWSSGDDPWVHAHAKWPRCEFLIRMGQEFVDEIQGRYPHLEQLL 360  
 QY 361 STSDTTGEBNADPPIIHFGPSSSSSDAVMMNTPVVKSALMGFNRLDVQTVLSKILTT 420  
 Db 361 STSDTTGEBNADPPIIHFGPSSSSSDAVMMNTPVVKSALMGFNRLDVQTVLSKILTT 420  
 QY 421 GENYKTVNDIVSALLNADEKREBEKEKQAEASDDLILRKRMALFOOLTVCVLPILD 480  
 Db 421 GENYKTVNDIVSALLNADEKREBEKEKQAEASDDLILRKRMALFOOLTVCVLPILD 480  
 QY 481 NLKANYINKQEHDIKQKQIPLQARELIDTILVKGNAANIIFKNCIKSIDSTLYKNLF 540  
 Db 481 NLKANYINKQEHDIKQKQIPLQARELIDTILVKGNAANIIFKNCIKSIDSTLYKNLF 540  
 QY 541 VDKNMKYIPTEDVSGLSLEQLRLQEBRTCKVCMDEKSVVFI PCGHLVVCQECAPSRL 600  
 Db 541 VDKNMKYIPTEDVSGLSLEQLRLQEBRTCKVCMDEKSVVFI PCGHLVVCQECAPSRL 600  
 QY 601 KCPICRGIIKGTVRTPLS 618  
 Db 601 KCPICRGIIKGTVRTPLS 618

RESULT 7  
 US-09-617-053A-8  
 ; Sequence 8, Application US/09617053A  
 ; Patent No. 6300492  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Korneluk, Robert G  
 ; APPLICANT: Mackenzie, Alexander E  
 ; APPLICANT: Liston, Peter  
 ; APPLICANT: Baird, Stephen  
 ; APPLICANT: Teang, Benjamin K  
 ; APPLICANT: Pratic, Christine  
 ; TITLE OF INVENTION: DETECTION AND MODULATION OF IAPS AND  
 ; TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
 ; FILE REFERENCE: 07891/009003  
 ; CURRENT APPLICATION NUMBER: US/09/617.053A  
 ; CURRENT FILING DATE: 2000-07-14  
 ; PRIOR APPLICATION NUMBER: US 08/800,929  
 ; PRIOR FILING DATE: 1997-02-13  
 ; NUMBER OF SEQ ID NOS: 17  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 8  
 ; LENGTH: 618  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-617-053A-8

Query March 99.1%; Score 3247; DB 4; Length 618;  
 Best Local Similarity 99.4%; Pred. No. 3.8e-305;  
 Matches 614; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
 QY 1 MHKTAAGRLFPGPSYONIKSIMESTLISDWTNSKQKRYDFSCELYRMSTYSTPFGV 60  
 Db 1 MHKTAAGRLFPGPSYONIKSIMESTLISDWTNSKQKRYDFSCELYRMSTYSTPFGV 60

QY 61 PVSEBSIARAGFYITTYGNDKVKCFCCGMLMDNKLADSPLOKXKOLYPSGCSFIQNLVYAS 120  
 Db 61 PVSEBSIARAGFYITTYGNDKVKCFCCGMLMDNKLADSPLOKXKOLYPSGCSFIQNLVYAS 120  
 QY 121 LGSTSKTSPMRNSFAHSLPTLHSSLSFGSGYSLSLSPNPLNSRAVEDISSRTNPYSYA 180  
 Db 121 LGSTSKTSPMRNSFAHSLPTLHSSLSFGSGYSLSLSPNPLNSRAVEDISSRTNPYSYA 180  
 QY 181 MSTEARFLTYHMPPLTFPLSPSELARAGFYIIGPGRVACFACGCKLSNMEPKDAMSEH 240  
 Db 181 MSTEARFLTYHMPPLTFPLSPSELARAGFYIIGPGRVACFACGCKLSNMEPKDAMSEH 240  
 QY 241 RRHPNCPFLNSLETIRFSISNLSMOTHAARMRTFMWESSVVOPEQLASAGFYVGR 300  
 Db 241 RRHPNCPFLNSLETIRFSISNLSMOTHAARMRTFMWESSVVOPEQLASAGFYVGR 300  
 QY 301 NNDVYKCCGCGLRCSWSSGDDPWVHAHAKWPRCEFLIRMGQEFVDEIQGRYPHLEQLL 360  
 Db 301 NNDVYKCCGCGLRCSWSSGDDPWVHAHAKWPRCEFLIRMGQEFVDEIQGRYPHLEQLL 360  
 QY 361 STSDTTGEBNADPPIIHFGPSSSSSDAVMMNTPVVKSALMGFNRLDVQTVLSKILTT 420  
 Db 361 STSDTTGEBNADPPIIHFGPSSSSSDAVMMNTPVVKSALMGFNRLDVQTVLSKILTT 420  
 QY 421 GENYKTVNDIVSALLNADEKREBEKEKQAEASDDLILRKRMALFOOLTVCVLPILD 480  
 Db 421 GENYKTVNDIVSALLNADEKREBEKEKQAEASDDLILRKRMALFOOLTVCVLPILD 480  
 QY 481 NLKANYINKQEHDIKQKQIPLQARELIDTILVKGNAANIIFKNCIKSIDSTLYKNLF 540  
 Db 481 NLKANYINKQEHDIKQKQIPLQARELIDTILVKGNAANIIFKNCIKSIDSTLYKNLF 540  
 QY 541 VDKNMKYIPTEDVSGLSLEQLRLQEBRTCKVCMDEKSVVFI PCGHLVVCQECAPSRL 600  
 Db 541 VDKNMKYIPTEDVSGLSLEQLRLQEBRTCKVCMDEKSVVFI PCGHLVVCQECAPSRL 600  
 QY 601 KCPICRGIIKGTVRTPLS 618  
 Db 601 KCPICRGIIKGTVRTPLS 618

RESULT 8  
 US-09-201-936-8  
 ; Sequence 8, Application US/09201936  
 ; Patent No. 6541457  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Korneluk, Robert G.  
 ; APPLICANT: Mackenzie, Alexander E.  
 ; APPLICANT: Liston, Peter  
 ; APPLICANT: Baird, Stephen  
 ; TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY, PRIMERS,  
 ; TITLE OF INVENTION: PROBES, AND DETECTION METHODS  
 ; FILE REFERENCE: 07891/003003  
 ; CURRENT APPLICATION NUMBER: US/09/201.936  
 ; CURRENT FILING DATE: 1998-12-01  
 ; EARLIER APPLICATION NUMBER: 09/011,356  
 ; EARLIER FILING DATE: 1998-02-04  
 ; EARLIER APPLICATION NUMBER: PCT/IB96/01022  
 ; EARLIER FILING DATE: 1996-08-05  
 ; EARLIER APPLICATION NUMBER: 08/576,956  
 ; EARLIER FILING DATE: 1995-12-22  
 ; EARLIER APPLICATION NUMBER: 08/511,485  
 ; EARLIER FILING DATE: 1995-08-04  
 ; NUMBER OF SEQ ID NOS: 45  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 8  
 ; LENGTH: 618  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 US-09-201-936-8

Query March 99.1%; Score 3247; DB 4; Length 618;  
 Best Local Similarity 99.4%; Pred. No. 3.8e-305;

Matches 614; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 MHKTASQRLFPSPSYONIKSIMEDSTILSDWTNSNKKMKYDFSCELYRMSTYSTPAGV 60  
 Db 1 MHKTASQRLFPSPSYONIKSIMEDSTILSDWTNSNKKMKYDFSCELYRMSTYSTPAGV 60  
 QY 61 PVBSRLARAGFYTYGVNDKYKCCCGMLDNWKLGDSPLOKHQOLYPSCSFTQNLVSAS 120  
 Db 61 PVBSRLARAGFYTYGVNDKYKCCCGMLDNWKLGDSPLOKHQOLYPSCSFTQNLVSAS 120  
 QY 121 LGSTSKNTSPMRNSFAHSLPTLEHSSLFSGSYSLSPNPLNSRAVEDISSRTPSYA 180  
 Db 121 LGSTSKNTSPMRNSFAHSLPTLEHSSLFSGSYSLSPNPLNSRAVEDISSRTPSYA 180  
 QY 181 MSTEBAFLTYHWWPLTFLSPSELARAGFYTYIGPDRAVACFACGGLSNWEPKODAMSEH 240  
 Db 181 MSTEBAFLTYHWWPLTFLSPSELARAGFYTYIGPDRAVACFACGGLSNWEPKODAMSEH 240  
 QY 241 RRHFPNCPLENSLETLRPSISNLSMOTHAARMTFMYPSVVPQPEOLASAGFYTYGR 300  
 Db 241 RRHFPNCPLENSLETLRPSISNLSMOTHAARMTFMYPSVVPQPEOLASAGFYTYGR 300  
 QY 301 NDVVKFCDCGGLRCMESGDDPWVHAHAKMPRCEFLIRMKQGFVDEIOGRYPHLEQL 360  
 Db 301 NDVVKFCDCGGLRCMESGDDPWVHAHAKMPRCEFLIRMKQGFVDEIOGRYPHLEQL 360  
 QY 361 STSDTTEENADPEIHFPGESSSEDAVMMNTFVVSALVEMGNRDLVQVTLKTLT 420  
 Db 361 STSDTTEENADPEIHFPGESSSEDAVMMNTFVVSALVEMGNRDLVQVTLKTLT 420  
 QY 421 GENYKTVNDIVSALINADEKREBEKOEKEMASDLSLRKRMALFOOLTCTVPLD 480  
 Db 421 GENYKTVNDIVSALINADEKREBEKOEKEMASDLSLRKRMALFOOLTCTVPLD 480  
 QY 481 NLKANVINQOEHDIIKQKQIPLQARELIDTILVKGNAANIIFKNCIKELIDSTLYKNL 540  
 Db 481 NLKANVINQOEHDIIKQKQIPLQARELIDTILVKGNAANIIFKNCIKELIDSTLYKNL 540  
 QY 541 VDKNMKXIPTEDVSGLSLEBQRLQEBRTCKVCMDEKESVVFIPCGHLVVCOCAPS 600  
 Db 541 VDKNMKXIPTEDVSGLSLEBQRLQEBRTCKVCMDEKESVVFIPCGHLVVCOCAPS 600  
 QY 601 KCPICRGITKGTVRTPLS 618  
 Db 601 KCPICRGITKGTVRTPLS 618

RESULT 9  
 US-08-569-749-14  
 ; Sequence 14, Application US/08569749  
 ; Patent No. 6187557  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rothe, Mike  
 ; APPLICANT: Goedel, David V  
 ; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
 ; NUMBER OF SEQUENCES: 14  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT  
 ; STREET: 4 Embarcadero Center, Suite 3400  
 ; CITY: San Francisco  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94111  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/569,749  
 ; FILING DATE:  
 ; CLASSIFICATION: 514  
 ; ATTORNEY/AGENT INFORMATION:

NAME: Brezner, David J.  
 REGISTRATION NUMBER: 24,774  
 REFERENCE/DOCKET NUMBER: A-62464/DJB  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (415)781-1989  
 TELEFAX: (415)398-3249  
 INFORMATION FOR SEQ ID NO: 14:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 612 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: linear  
 MOLECULE TYPE: protein  
 US-08-569-749-14

Query Match 83.2%; Score 2728; DB 3; Length 612;  
 Best Local Similarity 83.4%; Pred. No. 6.2e-255;  
 Matches 517; Conservative 45; Mismatches 48; Indels 10; Gaps 6;

QY 1 MHKTASQRLFPSPSYONIKSIMEDSTILSDWTNSNKKMKYDFSCELYRMSTYSTPAGV 60  
 Db 1 MDKTVSQRLQGGTLHQKXRIKMEKSTILSNWTKESBKMFDFSCELYRMSTYSAFPRGV 60  
 QY 61 PVBSRLARAGFYTYGVNDKYKCCCGMLDNWKLGDSPLOKHQOLYPSCSFTQNLVSAS 120  
 Db 61 PVBSRLARAGFYTYGVNDKYKCCCGMLDNWKLGDSPLEKARQFYPSCSFVQTLISAS 120  
 QY 121 LGSTSKNTSPMRNSFAHSLPTLEHSSLFSGSYSLSPNPLNSRAVEDISSRTPSYA 180  
 Db 121 LGSPSKMSPVSKRPHNS-SP-LER---GSHSNLCSSPLNSRAVEDF-SGMDPCSYA 173  
 QY 181 MSTEBAFLTYHWWPLTFLSPSELARAGFYTYIGPDRAVACFACGGLSNWEPKODAMSEH 240  
 Db 174 MSTEBAFLTYHWWPLTFLSPSELARAGFYTYIGPDRAVACFACGGLSNWEPKODAMSEH 233  
 QY 241 RRHFPNCPLENSLETLRPSISNLSMOTHAARMTFMYPSVVPQPEOLASAGFYTYGR 300  
 Db 234 RRHFPNCPLENSLETLRPSISNLSMOTHAARMTFMYPSVVPQPEOLASAGFYTYGR 293  
 QY 301 NDVVKFCDCGGLRCMESGDDPWVHAHAKMPRCEFLIRMKQGFVDEIOGRYPHLEQL 360  
 Db 294 NDVVKFCDCGGLRCMESGDDPWVHAHAKMPRCEFLIRMKQGFVDEIOGRYPHLEQL 353  
 QY 361 STSDTTEENADPEIHFPGESSSEDAVMMNTFVVSALVEMGNRDLVQVTLKTLT 418  
 Db 354 STSDTTEENADPEIHFPGESSSEDAVMMNTFVVSALVEMGNRDLVQVTLKTLT 412  
 QY 419 TTGENYKTVNDIVSALINADEKREBEKOEKEMASDLSLRKRMALFOOLTCTVPL 478  
 Db 413 ATGENYKTVNDIVSALINADEKREBEKOEKEMASDLSLRKRMALFOOLTCTVPL 472  
 QY 479 LDNLKANVINQOEHDIIKQKQIPLQARELIDTILVKGNAANIIFKNCIKELIDSTLYKN 538  
 Db 473 LDNLKASVITKOEHDIIKQKQIPLQARELIDTILVKGNAANIIFKNCIKELIDSTLYKN 532  
 QY 539 LFDVKNMKXIPTEDVSGLSLEBQRLQEBRTCKVCMDEKESVVFIPCGHLVVCOCAPS 598  
 Db 533 LFDVKNMKXIPTEDVSGLSLEBQRLQEBRTCKVCMDEKESVVFIPCGHLVVCOCAPS 592  
 QY 599 LRKPCIRGIIKGTVRTPLS 618  
 Db 593 LRKPCIRGIIKGTVRTPLS 612

RESULT 10  
 PCT-US96-12860-14  
 ; Sequence 14, Application PC/TUS9612860  
 ; GENERAL INFORMATION:  
 ; APPLICANT: TULARIK, INC.  
 ; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
 ; NUMBER OF SEQUENCES: 14  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT

STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/12860  
FILING DATE: 06 AUG 1996  
CLASSIFICATION:  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: U.S. Serial Nos. 08/512,946 & 08/569,749  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Brezner, David J.  
REGISTRATION NUMBER: 24,774  
REFERENCE/DOCKET NUMBER: A-62464/DJB  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 781-1989  
TELEFAX: (415) 398-3249  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 612 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
PCT-US96-12860-14

Query Match 83.2%; Score 2728; DB 5; Length 612;  
Best Local Similarity 83.4%; Pred. No. 6,2e-255;  
Matches 517; Conservative 45; Mismatches 48; Indels 10; Gaps 6;

QY 1 MHKTAQRLPPGPGSYQNIKSIIMEDSTIISDWTNSKQKQKDFSCBLYRMSTYSTPAGV 60  
DB 1 MDKTVSQRLGGTLHQKLRIMEKSTIISNWTKESEKMKDFSCBLYRMSTYSTAFPRGV 60  
QY 61 PVSESLARAGFYTGNDVKYKCCGGLMDNWKLGSPIDQKHQKQYPSGCFIOMLYSAS 120  
DB 61 PVSESLARAGFYTGNDVKYKCCGGLMDNWKLGSPIDQKHQKQYPSGCFIOMLYSAS 120  
QY 121 LGSTSKNTSPMRNSFAHSLSPLEHSSLPFGSYSLSPNPLNSRAVEDISSRTNPSYA 180  
DB 121 LGSTSKNTSPMRNSFAHSLSPLEHSSLPFGSYSLSPNPLNSRAVEDISSRTNPSYA 180  
QY 121 LQSPSKMSPYKSRFAHS-SP-LER---GGIHSNLCSSPLNSRAVEDP-SSRMDPCSYA 173  
DB 121 LQSPSKMSPYKSRFAHS-SP-LER---GGIHSNLCSSPLNSRAVEDP-SSRMDPCSYA 173  
QY 181 MSTEBAFLTYHMPFLTFLSPSELAARAGFYIIGPDRAVACACGKLSNMEPKDAMSEH 240  
DB 174 MSTEBAFLTYHMPFLTFLSPSELAARAGFYIIGPDRAVACACGKLSNMEPKDAMSEH 240  
QY 241 RRHFPNCPFLNSLETFLSTSNLSMOTHAARMTFMWPPSSVVPQPSQALASAGFYVGR 300  
DB 234 RRHFPNCPFLNSLETFLSTSNLSMOTHAARMTFMWPPSSVVPQPSQALASAGFYVGR 300  
QY 301 NDDVKCFCCDGLKCMWESGDDPWVEHAKMPRCCEFLIRMGQEVDEIOGRYPHILBQL 360  
DB 294 NDDVKCFCCDGLKCMWESGDDPWVEHAKMPRCCEFLIRMGQEVDEIOGRYPHILBQL 360  
QY 361 STSDTJGENADP--PIIHFGPGSSSSSDAVMNTPVYKALMEGFNDLYKQTVQSKIL 418  
DB 354 STSDTJGENADPPIETVHFGPGS-SSSDVVMMSSTPVYKALMEGFNSRLVQTVQSKIL 412  
QY 419 TTGENYKTVNDIYVSLALNADEKREBEKEKQAEEMASDDLSLRKNMALFQQLTCLVPI 478  
DB 413 ATGENYKTVNDIYVSLALNADEKREBEKEKQAEEMASDDLSLRKNMALFQQLTCLVPI 472  
QY 479 LDNLILKANVINKOEHDIKOKTQIPLQARBLIDTLVKGNAANIFKNCLKEIDSTLYKN 538  
DB 473 LDNLILKANVINKOEHDIKOKTQIPLQARBLIDTLVKGNAANIFKNCLKEIDSTLYKN 532

QY 539 LPVDKMKYITPEVSGISLEEQRLIOERTCYNDKESVYPIPCGHLVWQCECAPS 598  
DB 533 LFEKMKYITPEVSGISLEEQRLIOERTCYNDKESVYPIPCGHLVWQCECAPS 592  
QY 599 LRKPCIGKIGKTVRTFLS 618  
DB 593 LRKPCIGKIGKTVRTFLS 612

## RESULT 11

US-09-212-971-14  
Sequence 14, Application US/09212971B  
Patent No. 6107041

GENERAL INFORMATION:  
APPLICANT: Korneluk, Robert G  
APPLICANT: Mackenzie, Alexander E  
APPLICANT: Liston, Peter  
APPLICANT: Baird, Stephen  
APPLICANT: Teang, Benjamin K  
TITLE OF INVENTION: DETECTION AND MODULATION OF IAPs AND  
TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
TITLE OF INVENTION: DISEASE  
FILE REFERENCE: 07891/009002

CURRENT APPLICATION NUMBER: US/09/212,971B  
CURRENT FILING DATE: 1998-12-16  
EARLIER APPLICATION NUMBER: 60/017,354  
EARLIER FILING DATE: 1996-04-26  
EARLIER APPLICATION NUMBER: 60/030,590  
EARLIER FILING DATE: 1996-11-14  
EARLIER APPLICATION NUMBER: 08/800,929  
EARLIER FILING DATE: 1997-02-13  
NUMBER OF SEQ ID NOS: 17  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 14

Query Match 83.1%; Score 2724; DB 3; Length 612;  
Best Local Similarity 83.2%; Pred. No. 1.5e-254;  
Matches 516; Conservative 46; Mismatches 48; Indels 10; Gaps 6;

QY 1 MHKTAQRLPPGPGSYQNIKSIIMEDSTIISDWTNSKQKQKDFSCBLYRMSTYSTPAGV 60  
DB 1 MDKTVSQRLGGTLHQKLRIMEKSTIISNWTKESEKMKDFSCBLYRMSTYSTAFPRGV 60  
QY 61 PVSESLARAGFYTGNDVKYKCCGGLMDNWKLGSPIDQKHQKQYPSGCFIOMLYSAS 120  
DB 61 PVSESLARAGFYTGNDVKYKCCGGLMDNWKLGSPIDQKHQKQYPSGCFIOMLYSAS 120  
QY 121 LGSTSKNTSPMRNSFAHSLSPLEHSSLPFGSYSLSPNPLNSRAVEDISSRTNPSYA 180  
DB 121 LGSTSKNTSPMRNSFAHSLSPLEHSSLPFGSYSLSPNPLNSRAVEDISSRTNPSYA 180  
QY 121 LQSPSKMSPYKSRFAHS-SP-LER---GGIHSNLCSSPLNSRAVEDP-SSRMDPCSYA 173  
DB 121 LQSPSKMSPYKSRFAHS-SP-LER---GGIHSNLCSSPLNSRAVEDP-SSRMDPCSYA 173  
QY 181 MSTEBAFLTYHMPFLTFLSPSELAARAGFYIIGPDRAVACACGKLSNMEPKDAMSEH 240  
DB 174 MSTEBAFLTYHMPFLTFLSPSELAARAGFYIIGPDRAVACACGKLSNMEPKDAMSEH 240  
QY 241 RRHFPNCPFLNSLETFLSTSNLSMOTHAARMTFMWPPSSVVPQPSQALASAGFYVGR 300  
DB 234 RRHFPNCPFLNSLETFLSTSNLSMOTHAARMTFMWPPSSVVPQPSQALASAGFYVGR 300  
QY 301 NDDVKCFCCDGLKCMWESGDDPWVEHAKMPRCCEFLIRMGQEVDEIOGRYPHILBQL 360  
DB 294 NDDVKCFCCDGLKCMWESGDDPWVEHAKMPRCCEFLIRMGQEVDEIOGRYPHILBQL 360  
QY 361 STSDTJGENADP--PIIHFGPGSSSSSDAVMNTPVYKALMEGFNDLYKQTVQSKIL 418  
DB 354 STSDTJGENADPPIETVHFGPGS-SSSDVVMMSSTPVYKALMEGFNSRLVQTVQSKIL 412  
QY 419 TTGENYKTVNDIYVSLALNADEKREBEKEKQAEEMASDDLSLRKNMALFQQLTCLVPI 478





Best Local Similarity 83.2%; Pred. No. 1.5e-254;  
Matches 516; Conservative 46; Mismatches 48; Indels 10; Gaps 6;

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QY 1 MEKTAQORLPFGPSYONIKSIMESTILLSDMTNSKQKXKYPSCCLYMTSTYSPAVY 60
DB 1 MOKTASQRLGQGTILHOKLRIKMEKSTILLNWKESERKPFDPSCCLYMTSTYSPAVY 60
QY 61 PVSESLADAGYTYGVNDKVCPCCGGLMDNWKLDSP1OKHKQLYPSCSP1ONLVAS 120
DB 61 PVSESLADAGYTYGVNDKVCPCCGGLMDNWKLDSP1OKHKQLYPSCSP1ONLVAS 120
QY 121 LGSTKNTSPKNSPNSHSLPTLHNSLSFGSYSSLPNLSRAVEDISSSTNTPYSTA 180
DB 121 LGSTKNTSPKNSPNSHSLPTLHNSLSFGSYSSLPNLSRAVEDISSSTNTPYSTA 180
QY 121 LQSPSKNSPVKSRFAS--SP--LER---GQHSNLCSSPLNSRAVEDP--SSRMDPCSYA 173
DB 121 LQSPSKNSPVKSRFAS--SP--LER---GQHSNLCSSPLNSRAVEDP--SSRMDPCSYA 173
QY 181 MSTEERAFLYTMMPPLTFPSPEILARAGFYIIGPGRVACFACGGGLSNWEPKDDMSH 240
DB 174 MSTEERAFLYTMMPPLTFPSPEILARAGFYIIGPGRVACFACGGGLSNWEPKDDMSH 233
QY 241 RHFPNCPLENSLETLPFSISNLSMOTHAARFTFWVSSVPVQPEQLASAGFYVGR 300
DB 234 RHFPNCPLENTSETQRFISINLSMOTHSARLRTFLYVFPSPVQPEQLASAGFYVDR 293
QY 301 NDVVCFCDDGGLRCWESGDDPVWEHAKFPKPCFLIRKGOEFDVEIGRYPHLLEQL 360
DB 294 NDVVCFCDDGGLRCWEPDGPWIEHAKFPKPCFLIRKGOEFDVEIGRYPHLLEQL 353
QY 361 STSDTGEENADP--PIIHFGESSESDAVAMNTPVVSALEMGNRDLYKOTVSKIL 418
DB 354 STSDTGEENADPTEVVFHFGPGE--SSKDVVMSTVVAALLEMGRSLVQTOVROL 412
QY 419 TGENYKTVNDIVSALINAEDEKREBEKQAEEMASDDL3LIRKRNALFOQLTCVLP 478
DB 413 AGENYKTVNDIVSALINAEDEKREBEKQAEEMASDDL3LIRKRNALFOQLTCVLP 472
QY 479 LONLKANVINQOEHDIIOKTOPILOARELLIDTILVKNMAANIFKNCLEIDSTLYN 538
DB 473 LONLLEASVITQOEHDIIOKTOPILOARELLIDTILVKNMAANIFKNCLEIDSTLYN 532
QY 539 LEVDKMKYIPTEDVSGLSLEQLRLOBERTCKVCMDEKSVVFIPCGHLVVOCECAPS 598
DB 533 LEVDKMKYIPTEDVSGLSLEQLRLOBERTCKVCMDEKSVVFIPCGHLVVOCECAPS 592
QY 599 LKCPICRGIIKGTVRTFLS 618
DB 593 LKCPICRGIIKGTVRTFLS 612
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## RESULT 14

US-09-201-936-42  
; Sequence 42, Application US/09201936  
; Patent No. 6541457  
; GENERAL INFORMATION:  
; APPLICANT: Korneluk, Robert G.  
; APPLICANT: Mackenzie, Alexander E.  
; APPLICANT: Baird, Stephen  
; APPLICANT: Liston, Peter  
; TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY, PRIMERS,  
; TITLE OF INVENTION: PROBES AND DETECTION METHODS  
; FILE REFERENCE: 07891/003003  
; CURRENT APPLICATION NUMBER: US/09/201, 936  
; CURRENT FILING DATE: 1998-12-01  
; EARLIER APPLICATION NUMBER: 09/011,356  
; EARLIER FILING DATE: 1998-02-04  
; EARLIER APPLICATION NUMBER: PCT/IB96/01022  
; EARLIER FILING DATE: 1996-08-05  
; EARLIER APPLICATION NUMBER: 08/576,956  
; EARLIER FILING DATE: 1995-12-22  
; EARLIER APPLICATION NUMBER: 08/511,485  
; EARLIER FILING DATE: 1995-08-04  
; NUMBER OF SEQ ID NOS: 45  
; SOFTWARE: FASTSEQ for Windows Version 3.0  
; SEQ ID NO 42

LENGTH: 591  
; TYPE: PRT  
; ORGANISM: Mus musculus  
US-09-201-936-42

Query Match 81.0%; Score 2654; DB 4; Length 591;  
Best Local Similarity 83.8%; Pred. No. 8.4e-248;  
Matches 502; Conservative 44; Mismatches 43; Indels 10; Gaps 6;

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QY 22 MEDSTILLSDMTNSKQKXKYPSCCLYMTSTYSPAVPVSESLADAGFYTYGVNDK 81
DB 1 MEKTAQORLPFGPSYONIKSIMESTILLSDMTNSKQKXKYPSCCLYMTSTYSPAV 60
QY 82 KCFCGGLMDNWKLDSP1OKHKQLYPSCSP1ONLVASLASTSXTSPKNSPNSHSLSP 141
DB 61 KCFCGGLMDNWKLDSP1OKHKQLYPSCSP1ONLVASLASTSXTSPKNSPNSHSLSP 119
QY 142 TLEHSLSGSYSSLPNLSRAVEDISSSTNTPYSTAMSTEERAFLYTMMPPLTF 201
DB 120 --LER---GQHSNLCSSPLNSRAVEDP--SSRMDPCSYAMSTEERAFLYTMMPPL 173
QY 202 SELARAGFYIIGPGRVACFACGGGLSNWEPKDDMSHRRHFPKPCPLENLETLPFSI 261
DB 174 SELARAGFYIIGPGRVACFACGGGLSNWEPKDDMSHRRHFPKPCPLENLETLPFSI 233
QY 262 SNLSMOTHAARFTFWVSSVPVQPEQLASAGFYVGRNDVVCFCDDGGLRCWESGDD 321
DB 234 SNLSMOTHSARLRTFLYVFPSPVQPEQLASAGFYVGRNDVVCFCDDGGLRCWEPD 293
QY 322 PVWEHAKFPKPCFLIRKGOEFDVEIGRYPHLLEQLSTSDTGEENADP--PIIHFG 379
DB 294 PVWEHAKFPKPCFLIRKGOEFDVEIGRYPHLLEQLSTSDTGEENADPTEVVFHFG 353
QY 380 PGESSEDAVAMNTPVVSALEMGNRDLYKOTVSKILLTGENYKTVNDIVSALINAE 439
DB 354 PGE--SSKDVVMSTVVAALLEMGRSLVQTOVROLLAGENYKTVNDIVSALINAE 412
QY 440 EKREBEKQAEEMASDDL3LIRKRNALFOQLTCVLP1LONLKANVINQOEHDIIOK 499
DB 413 ERREBEKQAEEMASDDL3LIRKRNALFOQLTCVLP1LONLLEASVITQOEHDIIOK 472
QY 500 TOPILOARELLIDTILVKNMAANIFKNCLEIDSTLYNLFVDKMKYIPTEDVSGLS 559
DB 473 TOPILOARELLIDTILVKNMAANIFKNCLEIDSTLYNLFVDKMKYIPTEDVSGLS 532
QY 560 BOLRLBERTCKVCMDEKSVVFIPCGHLVVOCECAPSLKCPICRGIIKGTVRTFLS 618
DB 533 BOLRLBERTCKVCMDEKSVVFIPCGHLVVOCECAPSLKCPICRGIIKGTVRTFLS 591
```

## RESULT 15

US-08-569-749-4  
; Sequence 4, Application US/08569749  
; Patent No. 6187557  
; GENERAL INFORMATION:  
; APPLICANT: Rothe, Mike  
; APPLICANT: Goeddel, David V.  
; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESS: FLEHR, HOBBACH, TEST, ALABRITTON & HERBERT  
; STREET: 4 Embarcadero Center, Suite 3400  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/569,749

FILED DATE:  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Brezner, David J.  
REGISTRATION NUMBER: 24,774  
REFERENCE/DOCKET NUMBER: A-62464/DJB  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415)781-1989  
TELEFAX: (415)398-3249  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 604 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-569-749-4

Query Match 71.8%; Score 2353; DB 3; Length 604;  
Best Local Similarity 72.8%; Pred. No. 1.2e-218;  
Matches 440; Conservative 71; Mismatches 87; Indels 6; Gaps 5;

QY 20 SIMEDSTLSPWNTS-NKQKMKYDFSCELYMSTYTFEAGVPVSESLARAGFYTGYN 78  
DB 2 NIVENSIFLSNLMKSNANTPELKYDLSCELYRMSTYSTFAGVPVSESLARAGFYTGYN 61  
QY 79 DKVACFCGGLMDWKLGDSPLOKHQOLYPCSCFPIQNLVSA-SLGSTSKNTSP--MNSF 135  
DB 62 DKVACFCGGLMDWKLGDSPLEKHKKLYPCSCRFVQSLNSVNNLEATSQPTFPSSVTNS- 120  
QY 136 AHSLSPLEHSLSPSGYSLSLPNPLNSRAVEDISSRTNPYSAMSTEARFLTYHMP 195  
DB 121 THSLLPGENSGYFRGSYSNSPNSPNSRANQDSALMRSSYHCAMNNENARLLTFQTP 180  
QY 196 LTFPLSPSELARAGFYTGPDGRVACFACCGGLSNMBPKDAMSEHRRHFPNCPLENSL- 254  
DB 181 LTFPLSPDLAKAGFYTGPDGRVACFACCGGLSNMBPKDAMSEHRRHFPNCPLENSL 240  
QY 255 ETLRFSISNLSMOTHAARMRTFMYWPSVPVQPLASAGFYVYGRNDVYCFCCDGLR 314  
DB 241 DTSRYTNSLSMOTHAARFTFFNWPSSVLVNPQLASAGFYVYGNSDVYCFCCDGLR 300  
QY 315 CWESGDDPWVHAHMPFPCFELIRMKQGFVDEIQGRYHLLBOLLSTSDTGEENADPP 374  
DB 301 CWESGDDPWVHAHMPFPCFELIRIRKQGFIRQVQASTPHLEQLLSTSDSPDENAES 360  
QY 375 IHHGPGSSSEDAVMNMTPVVKSALKEGFNRDLVKQTVCSKITLTGENYKTVNDIVSAL 434  
DB 361 IHHGPGSEHSEDAVMNMTPVVKSALKEGFNRDLVKQTVCSKITLTGENYKTVNDIVS 420  
QY 435 LNADEKREERKEKQAEEMASDDLSLRKNMALFOQLTCVLPILDMILKANVINKQEH 494  
DB 421 LNADEKREERERATEKESNDLLLRKNMALFOHLTCVLPILDSLTAGIINEQEH 480  
QY 495 IIRKQTOPLQARLIDTILYKGNAAANIFKCNKEIDSTLYKNLPVDMKMYIPTEDVS 554  
DB 481 VIKQTOPLQARLIDTILYKGNIAAVFNSLOEAAVLYEHLFVQODIKYIPTEDVS 540  
QY 555 GLSLPEQLRLQERCTCVCMDEKESVYFIPCGHLVWQECAPSLRKCPICRGIKGTVR 614  
DB 541 DLPEEQRLQERCTCVCMDEKESVYFIPCGHLVWQCDAPSLRKCPICRSTIKGTVR 600  
QY 615 TFLS 618  
DB 601 TFLS 604

Search completed: December 4, 2003, 17:09:32  
Job time : 37.2613 secs

GenCore version 5.1.6  
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OM protein - protein search, using SW model

Run on: December 4, 2003, 16:55:06 ; Search time 90.9369 Seconds  
(without alignments)  
1263.930 Million cell updates/sec

Title: US-08-569-749-2

Perfect score: 3277  
1 MHKTSQRLPPGPEYONIKS.....LRKPCIGRIIGKTVRTFLS 618

Sequence:

Scoring table: BLOSUM62

Searched: Gapop 10.0 , Gapext 0.5

Total number of hits satisfying chosen parameters: 684280

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database :

Published Applications AA:\*

- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep:\*
- 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep:\*
- 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep:\*
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- 9: /cgn2\_6/ptodata/2/pubpaa/US09\_PUBCOMB.pep:\*
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- 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep:\*
- 12: /cgn2\_6/ptodata/2/pubpaa/US09\_NEW\_PUB.pep:\*
- 13: /cgn2\_6/ptodata/2/pubpaa/US10A\_PUBCOMB.pep:\*
- 14: /cgn2\_6/ptodata/2/pubpaa/US10B\_PUBCOMB.pep:\*
- 15: /cgn2\_6/ptodata/2/pubpaa/US10C\_PUBCOMB.pep:\*
- 16: /cgn2\_6/ptodata/2/pubpaa/US10C\_NEW\_PUB.pep:\*
- 17: /cgn2\_6/ptodata/2/pubpaa/US60\_NEW\_PUB.pep:\*
- 18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	3277	100.0	618	12	US-10-332-286-2
2	3277	100.0	618	15	US-10-153-668-338
3	3277	100.0	618	15	US-10-207-655-200
4	3247	99.1	618	10	US-09-974-592-8
5	3247	99.1	618	10	US-09-201-936-8
6	2728	83.2	612	12	US-10-332-286-14
7	2724	83.1	612	10	US-09-974-592-14
8	2654	81.0	591	10	US-09-201-936-42
9	2353	71.8	604	12	US-10-332-286-4
10	2353	71.8	604	12	US-10-141-618-6
11	2332	71.2	604	10	US-09-974-592-6
12	2332	71.0	604	10	US-09-201-936-6
13	2326	71.0	438	8	US-08-464-588-2
14	2326	71.0	438	15	US-10-323-643-2
15	2172	66.3	600	10	US-09-974-592-12

16	2152	65.7	602	10	US-09-201-936-40	Sequence 40, Appl
17	1678	51.2	1140	12	US-10-353-461-8	Sequence 8, Appl
18	1593	48.6	306	9	US-09-778-927A-62	Sequence 62, Appl
19	909	27.7	497	10	US-09-974-592-4	Sequence 4, Appl
20	874	27.7	497	10	US-09-201-936-4	Sequence 4, Appl
21	874	26.7	496	10	US-09-974-592-10	Sequence 10, Appl
22	874	26.7	496	10	US-09-201-936-10	Sequence 10, Appl
23	736.5	22.5	498	10	US-09-201-936-13	Sequence 13, Appl
24	539	16.4	108	15	US-10-228-897-7	Sequence 7, Appl
25	533.5	16.3	278	10	US-09-964-899-39	Sequence 39, Appl
26	513	15.7	268	15	US-10-323-643-10	Sequence 10, Appl
27	500.5	15.3	346	15	US-10-041-859-2	Sequence 2, Appl
28	462.5	14.1	280	15	US-10-244-586-3	Sequence 3, Appl
29	462	14.1	1403	8	US-08-913-322-22	Sequence 22, Appl
30	462	14.1	1403	8	US-08-913-322-22	Sequence 22, Appl
31	462	14.1	1403	15	US-10-285-408-1	Sequence 1, Appl
32	461	14.1	275	10	US-09-201-936-12	Sequence 12, Appl
33	461	14.1	275	15	US-10-323-643-9	Sequence 9, Appl
34	460.5	14.1	298	15	US-10-235-026-2	Sequence 2, Appl
35	457	13.9	355	12	US-10-203-708-44	Sequence 44, Appl
36	453	13.8	92	14	US-10-314-506-29	Sequence 29, Appl
37	453	13.8	92	14	US-10-014-269-29	Sequence 29, Appl
38	453	13.8	89	9	US-10-002-974-29	Sequence 29, Appl
39	431	13.2	89	14	US-09-728-721-32	Sequence 32, Appl
40	431	13.2	89	14	US-10-105-931-32	Sequence 32, Appl
41	431	13.2	89	14	US-10-118-984-32	Sequence 32, Appl
42	431	13.2	89	15	US-10-295-981-32	Sequence 32, Appl
43	419.5	12.8	172	15	US-10-041-859-8	Sequence 8, Appl
44	418.5	12.8	172	15	US-10-041-859-12	Sequence 12, Appl
45	395.5	12.1	172	15	US-10-041-859-10	Sequence 10, Appl

#### ALIGNMENTS

RESULT 1  
US-10-232-286-2  
Sequence 2, Application US/10232286  
Publication No. US20030143579A1

GENERAL INFORMATION:  
APPLICANT: Rothe, Mike  
TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC Compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/232,286  
FILING DATE: 30-Aug-2002  
CLASSIFICATION: <Unknown>  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US/08/569,749  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Brenner, David J.  
REGISTRATION NUMBER: 24,774  
REFERENCE/DOCKET NUMBER: A-62464/DJB  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415) 781-1989  
TELEFAX: (415) 398-3249  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 618 amino acids

TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
US-10-232-286-2

Query Match 100.0%; Score 3277; DB 1; Length 618;  
Best Local Similarity 100.0%; Pred. No. 66-281;  
Matches 618; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MHKTAQRLPEPGSYONIKSIMEDSTILSDWTNSNKKMKYDFSCELYRMTSTPPAGV 60  
DB 1 MHKTAQRLPEPGSYONIKSIMEDSTILSDWTNSNKKMKYDFSCELYRMTSTPPAGV 60  
QY 61 PVSESLARAGFYTYGVNDKVKCFCCGLMDNKLDSPIQKHQOLYPSCSFIQNLVSAS 120  
DB 61 PVSESLARAGFYTYGVNDKVKCFCCGLMDNKLDSPIQKHQOLYPSCSFIQNLVSAS 120  
QY 121 LGSTSKNTSPMRNSFAHSLPTEHSSLPFGSYSLSPNPLNSRAVEDISSRTNPYSYA 180  
DB 121 LGSTSKNTSPMRNSFAHSLPTEHSSLPFGSYSLSPNPLNSRAVEDISSRTNPYSYA 180  
QY 181 MSTEAPFLTYHMPPLTFLSPSELARAGFYTYIGPDRVACFACGKLSNMEPKDAMSEH 240  
DB 181 MSTEAPFLTYHMPPLTFLSPSELARAGFYTYIGPDRVACFACGKLSNMEPKDAMSEH 240  
QY 241 RRHFPNCPFLNSLETLRFSISNLSMOTHAARMRTFMYPSSVPVQPEOLASAGFYVGR 300  
DB 241 RRHFPNCPFLNSLETLRFSISNLSMOTHAARMRTFMYPSSVPVQPEOLASAGFYVGR 300  
QY 301 NDDVKCFCCDGGILRCWESGDDPVWEHAKMFPCEFLIRMKQGFVDEIQGRYPHLLBOLL 360  
DB 301 NDDVKCFCCDGGILRCWESGDDPVWEHAKMFPCEFLIRMKQGFVDEIQGRYPHLLBOLL 360  
QY 361 STSDTTEENADPPIIHFGPSSSSSDAVMMNTPVKSALEMGFNRDLVKQTVOSKILTT 420  
DB 361 STSDTTEENADPPIIHFGPSSSSSDAVMMNTPVKSALEMGFNRDLVKQTVOSKILTT 420  
QY 421 GENYKTVNDIVSALINADEKREERKEKQAEEMASDDLSTIRKNRMALFOQLTCVLPILD 480  
DB 421 GENYKTVNDIVSALINADEKREERKEKQAEEMASDDLSTIRKNRMALFOQLTCVLPILD 480  
QY 481 NLKANVINKEHDIIOKTOIPLQARELIDTILVGNAAANIFKQCLKEIDSTLYKNLF 540  
DB 481 NLKANVINKEHDIIOKTOIPLQARELIDTILVGNAAANIFKQCLKEIDSTLYKNLF 540  
QY 541 VDKNMKYIPTEDVSGLSLEQLRLQEBERTCKVCMDEKSVVVFIPCGHLVVCQCAPSLR 600  
DB 541 VDKNMKYIPTEDVSGLSLEQLRLQEBERTCKVCMDEKSVVVFIPCGHLVVCQCAPSLR 600  
QY 601 KCPICGIIKGIVRTFLS 618  
DB 601 KCPICGIIKGIVRTFLS 618

## RESULT 2

US-10-153-668-338  
Sequence 338, Application US/10153668  
Publication No. US20030092616A1

GENERAL INFORMATION:

APPLICANT: HONDA, Goichi

APPLICANT: MATSUDA, Akio

APPLICANT: MURAMATSU, Shuji

APPLICANT: ISHIZAKA, Kenya

TITLE OF INVENTION: STATE Activating Gene

FILE REFERENCE: 1254-0207P

CURRENT APPLICATION NUMBER: US/10/153, 668

PRIOR FILING DATE: 2002-05-24

PRIOR APPLICATION NUMBER: US 60/293,172

PRIOR FILING DATE: 2001-05-25

PRIOR APPLICATION NUMBER: US 60/316,031

PRIOR FILING DATE: 2001-08-31

PRIOR APPLICATION NUMBER: US 60/328,403  
PRIOR FILING DATE: 2001-10-12  
PRIOR APPLICATION NUMBER: JP 2001-157043  
PRIOR FILING DATE: 2001-05-25  
PRIOR APPLICATION NUMBER: JP 2001-260681  
PRIOR FILING DATE: 2001-08-30  
PRIOR APPLICATION NUMBER: JP 2001-313175  
PRIOR FILING DATE: 2001-10-10  
NUMBER OF SEQ ID NOS: 488  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 338  
LENGTH: 618  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-10-153-668-338

Query Match 100.0%; Score 3277; DB 15; Length 618;  
Best Local Similarity 100.0%; Pred. No. 66-281;  
Matches 618; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MHKTAQRLPEPGSYONIKSIMEDSTILSDWTNSNKKMKYDFSCELYRMTSTPPAGV 60  
DB 1 MHKTAQRLPEPGSYONIKSIMEDSTILSDWTNSNKKMKYDFSCELYRMTSTPPAGV 60  
QY 61 PVSESLARAGFYTYGVNDKVKCFCCGLMDNKLDSPIQKHQOLYPSCSFIQNLVSAS 120  
DB 61 PVSESLARAGFYTYGVNDKVKCFCCGLMDNKLDSPIQKHQOLYPSCSFIQNLVSAS 120  
QY 121 LGSTSKNTSPMRNSFAHSLPTEHSSLPFGSYSLSPNPLNSRAVEDISSRTNPYSYA 180  
DB 121 LGSTSKNTSPMRNSFAHSLPTEHSSLPFGSYSLSPNPLNSRAVEDISSRTNPYSYA 180  
QY 181 MSTEAPFLTYHMPPLTFLSPSELARAGFYTYIGPDRVACFACGKLSNMEPKDAMSEH 240  
DB 181 MSTEAPFLTYHMPPLTFLSPSELARAGFYTYIGPDRVACFACGKLSNMEPKDAMSEH 240  
QY 241 RRHFPNCPFLNSLETLRFSISNLSMOTHAARMRTFMYPSSVPVQPEOLASAGFYVGR 300  
DB 241 RRHFPNCPFLNSLETLRFSISNLSMOTHAARMRTFMYPSSVPVQPEOLASAGFYVGR 300  
QY 301 NDDVKCFCCDGGILRCWESGDDPVWEHAKMFPCEFLIRMKQGFVDEIQGRYPHLLBOLL 360  
DB 301 NDDVKCFCCDGGILRCWESGDDPVWEHAKMFPCEFLIRMKQGFVDEIQGRYPHLLBOLL 360  
QY 361 STSDTTEENADPPIIHFGPSSSSSDAVMMNTPVKSALEMGFNRDLVKQTVOSKILTT 420  
DB 361 STSDTTEENADPPIIHFGPSSSSSDAVMMNTPVKSALEMGFNRDLVKQTVOSKILTT 420  
QY 421 GENYKTVNDIVSALINADEKREERKEKQAEEMASDDLSTIRKNRMALFOQLTCVLPILD 480  
DB 421 GENYKTVNDIVSALINADEKREERKEKQAEEMASDDLSTIRKNRMALFOQLTCVLPILD 480  
QY 481 NLKANVINKEHDIIOKTOIPLQARELIDTILVGNAAANIFKQCLKEIDSTLYKNLF 540  
DB 481 NLKANVINKEHDIIOKTOIPLQARELIDTILVGNAAANIFKQCLKEIDSTLYKNLF 540  
QY 541 VDKNMKYIPTEDVSGLSLEQLRLQEBERTCKVCMDEKSVVVFIPCGHLVVCQCAPSLR 600  
DB 541 VDKNMKYIPTEDVSGLSLEQLRLQEBERTCKVCMDEKSVVVFIPCGHLVVCQCAPSLR 600  
QY 601 KCPICGIIKGIVRTFLS 618  
DB 601 KCPICGIIKGIVRTFLS 618

## RESULT 3

US-10-207-655-200  
Sequence 200, Application US/10207655  
Publication No. US20030118592A1

GENERAL INFORMATION:

APPLICANT: Ledbetter, Jeffrey A.

APPLICANT: Hayden-Ledbetter, Martha S.

TITLE OF INVENTION: BINDING DOMAIN-IMMUNOGLOBULIN FUSION PROTEINS

FILE REFERENCE: 390069.401C1  
 CURRENT APPLICATION NUMBER: US/10/207,655  
 CURRENT FILING DATE: 2002-07-25  
 NUMBER OF SEQ ID NOS: 426  
 SOFTWARE: Patent in version 3.0  
 SEQ ID NO 200  
 LENGTH: 618  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-10-207-655-200

Query Match 100.0%; Score 3277; DB 15; Length 618;  
 Best Local Similarity 100.0%; Pred. No. 6e-281;  
 Matches 618; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MHKTAQRLFPGPSYONIKSIMEDSTILSDWTNSKOKMKYDFSCELYRMSTYSTFPAGV 60
DB 1 MHKTAQRLFPGPSYONIKSIMEDSTILSDWTNSKOKMKYDFSCELYRMSTYSTFPAGV 60
QY 61 PVSESLARAGFYTYGVNDKVCFCGGLMDNWKLGDSPIQKHQOLYPSGCFIOMLVAS 120
DB 61 PVSESLARAGFYTYGVNDKVCFCGGLMDNWKLGDSPIQKHQOLYPSGCFIOMLVAS 120
QY 121 LGSTKNTSPMRNSFAHSLPTLHSSLSFGSYSLSPNPLNSRAVEDISSRTNPYSYA 180
DB 121 LGSTKNTSPMRNSFAHSLPTLHSSLSFGSYSLSPNPLNSRAVEDISSRTNPYSYA 180
QY 181 MSTEAREFLTYHMPDLTFLSPSELARAGFYTYIGPDRAVACFACGGLSNWEPKODAMSEH 240
DB 181 MSTEAREFLTYHMPDLTFLSPSELARAGFYTYIGPDRAVACFACGGLSNWEPKODAMSEH 240
QY 241 RRHFPNCPFLNSLETIRFSISNLSMOTHAARMFTWYPSVVOPEQLASAGFYTYGR 300
DB 241 RRHFPNCPFLNSLETIRFSISNLSMOTHAARMFTWYPSVVOPEQLASAGFYTYGR 300
QY 301 NDDVCFCCDGGALRCMESGDDPWVEHAKMFPRCFELIRMKQOEYVDEIQGRYPHLEBOL 360
DB 301 NDDVCFCCDGGALRCMESGDDPWVEHAKMFPRCFELIRMKQOEYVDEIQGRYPHLEBOL 360
QY 361 STSDTGTGENADPPIIHFGPGESSSEDAVMMNTPVVKSALJMGFNRLDVKQTVOSKILTT 420
DB 361 STSDTGTGENADPPIIHFGPGESSSEDAVMMNTPVVKSALJMGFNRLDVKQTVOSKILTT 420
QY 421 GENYKTVNDIVSALINAEDEKREBEKEKQAEEMASDDLSLRKNRMALFOOLTCTVLPILD 480
DB 421 GENYKTVNDIVSALINAEDEKREBEKEKQAEEMASDDLSLRKNRMALFOOLTCTVLPILD 480
QY 481 NLKANVINKOEHDIIKQTOIPIQARELIDTILVKGNAANIIFNCKLKEIDSTLYKNLF 540
DB 481 NLKANVINKOEHDIIKQTOIPIQARELIDTILVKGNAANIIFNCKLKEIDSTLYKNLF 540
QY 541 VDKMKKIYPTEDVSGLSLEBQLRLQEBRTCKVCMDEKVSVPFPCGHLVVCQCAPSLR 600
DB 541 VDKMKKIYPTEDVSGLSLEBQLRLQEBRTCKVCMDEKVSVPFPCGHLVVCQCAPSLR 600
QY 601 KCPICRGIIKGTVRTFLS 618
DB 601 KCPICRGIIKGTVRTFLS 618

```

RESULT 4  
 US-09-974-592-8

Sequence 8, Application US/09974592  
 Patent No. US20020120121A1  
 GENERAL INFORMATION:  
 APPLICANT: Korneluk, Robert G  
 APPLICANT: Mackenzie, Alexander E  
 APPLICANT: Liston, Peter  
 APPLICANT: Baird, Stephen  
 APPLICANT: Teang, Benjamin K  
 APPLICANT: Pratt, Christine  
 TITLE OF INVENTION: DETECTION AND MODULATION OF TAPS AND  
 TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE

TITLE OF INVENTION: DISEASE  
 FILE REFERENCE: 07891/009004  
 CURRENT APPLICATION NUMBER: US/09/974,592  
 CURRENT FILING DATE: 2001-10-09  
 PRIOR APPLICATION NUMBER: US 09/617,053  
 PRIOR FILING DATE: 2000-07-14  
 PRIOR APPLICATION NUMBER: US 08/800,929  
 NUMBER OF SEQ ID NOS: 17  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 8  
 LENGTH: 618  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-974-592-8

Query Match 99.1%; Score 3247; DB 10; Length 618;  
 Best Local Similarity 99.4%; Pred. No. 2.7e-278;  
 Matches 614; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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QY 1 MHKTAQRLFPGPSYONIKSIMEDSTILSDWTNSKOKMKYDFSCELYRMSTYSTFPAGV 60
DB 1 MHKTAQRLFPGPSYONIKSIMEDSTILSDWTNSKOKMKYDFSCELYRMSTYSTFPAGV 60
QY 61 PVSESLARAGFYTYGVNDKVCFCGGLMDNWKLGDSPIQKHQOLYPSGCFIOMLVAS 120
DB 61 PVSESLARAGFYTYGVNDKVCFCGGLMDNWKLGDSPIQKHQOLYPSGCFIOMLVAS 120
QY 121 LGSTKNTSPMRNSFAHSLPTLHSSLSFGSYSLSPNPLNSRAVEDISSRTNPYSYA 180
DB 121 LGSTKNTSPMRNSFAHSLPTLHSSLSFGSYSLSPNPLNSRAVEDISSRTNPYSYA 180
QY 181 MSTEAREFLTYHMPDLTFLSPSELARAGFYTYIGPDRAVACFACGGLSNWEPKODAMSEH 240
DB 181 MSTEAREFLTYHMPDLTFLSPSELARAGFYTYIGPDRAVACFACGGLSNWEPKODAMSEH 240
QY 241 RRHFPNCPFLNSLETIRFSISNLSMOTHAARMFTWYPSVVOPEQLASAGFYTYGR 300
DB 241 RRHFPNCPFLNSLETIRFSISNLSMOTHAARMFTWYPSVVOPEQLASAGFYTYGR 300
QY 301 NDDVCFCCDGGALRCMESGDDPWVEHAKMFPRCFELIRMKQOEYVDEIQGRYPHLEBOL 360
DB 301 NDDVCFCCDGGALRCMESGDDPWVEHAKMFPRCFELIRMKQOEYVDEIQGRYPHLEBOL 360
QY 361 STSDTGTGENADPPIIHFGPGESSSEDAVMMNTPVVKSALJMGFNRLDVKQTVOSKILTT 420
DB 361 STSDTGTGENADPPIIHFGPGESSSEDAVMMNTPVVKSALJMGFNRLDVKQTVOSKILTT 420
QY 421 GENYKTVNDIVSALINAEDEKREBEKEKQAEEMASDDLSLRKNRMALFOOLTCTVLPILD 480
DB 421 GENYKTVNDIVSALINAEDEKREBEKEKQAEEMASDDLSLRKNRMALFOOLTCTVLPILD 480
QY 481 NLKANVINKOEHDIIKQTOIPIQARELIDTILVKGNAANIIFNCKLKEIDSTLYKNLF 540
DB 481 NLKANVINKOEHDIIKQTOIPIQARELIDTILVKGNAANIIFNCKLKEIDSTLYKNLF 540
QY 541 VDKMKKIYPTEDVSGLSLEBQLRLQEBRTCKVCMDEKVSVPFPCGHLVVCQCAPSLR 600
DB 541 VDKMKKIYPTEDVSGLSLEBQLRLQEBRTCKVCMDEKVSVPFPCGHLVVCQCAPSLR 600
QY 601 KCPICRGIIKGTVRTFLS 618
DB 601 KCPICRGIIKGTVRTFLS 618

```

RESULT 5  
 US-09-201-936-8

Sequence 8, Application US/09201936  
 Publication No. US20020187946A1  
 GENERAL INFORMATION:  
 APPLICANT: Korneluk, Robert G.  
 APPLICANT: Mackenzie, Alexander E.  
 APPLICANT: Baird, Stephen

```

APPLICANT: liston, Peter
TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY, PRIMERS,
FILE OF INVENTION: PROBES, AND DETECTION METHODS
FILE REFERENCE: 07891/003003
CURRENT APPLICATION NUMBER: US/09/201,936
EARLIER FILING DATE: 1998-12-01
EARLIER APPLICATION NUMBER: 09/011,356
EARLIER FILING DATE: 1998-02-04
EARLIER APPLICATION NUMBER: PCT/IB96/01022
EARLIER FILING DATE: 1996-08-05
EARLIER APPLICATION NUMBER: 08/576,956
EARLIER FILING DATE: 1995-12-22
EARLIER APPLICATION NUMBER: 08/511,485
NUMBER OF SEQ ID NOS: 45
SOFTWARE: FASTSEQ for Windows Version 3.0
SEQ ID NO 8
LENGTH: 618
TYPE: PRT
ORGANISM: Homo sapiens
US-09-201-936-8

```

```

Query Match          99.1%; Score 3247; DB 10; Length 618;
Best Local Similarity 99.4%; Pred. No. 2.7e-278;
Matches 614; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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QY 1 MHKTASQRLPFGPSYONIKSIMEDSTILSDWTNSNKKQKTDPSCELYRMSTYSTPPAGV 60
DB 1 MHKTASQRLPFGPSYONIKSIMEDSTILSDWTNSNKKQKTDPSCELYRMSTYSTPPAGV 60
QY 61 PVSRSLARAGFYTYGVNDKVKCCGGLMDNWKLGSPLOKHQOLYPSGFIQNLVSAS 120
DB 61 PVSRSLARAGFYTYGVNDKVKCCGGLMDNWKLGSPLOKHQOLYPSGFIQNLVSAS 120
QY 121 LGSTSKNTSPMRNSFAHSLPTLHSSLSFGSYSSLSPNPLNSRAVEDISSRTNPYSYA 180
DB 121 LGSTSKNTSPMRNSFAHSLPTLHSSLSFGSYSSLSPNPLNSRAVEDISSRTNPYSYA 180
QY 181 MSTEABFLTYHMPPLTFLSPSELARAGFYTYIGDRAVA.PACGGLSNMPEKDDAMSEH 240
DB 181 MSTEABFLTYHMPPLTFLSPSELARAGFYTYIGDRAVA.PACGGLSNMPEKDDAMSEH 240
QY 241 RRHFPNCPLENSLETIRFSISNLSMOTHAARMTFMYWSSVVOPEOLASAGFYTYGR 300
DB 241 RRHFPNCPLENSLETIRFSISNLSMOTHAARMTFMYWSSVVOPEOLASAGFYTYGR 300
QY 301 NDDVKCFCCDGGJRCWESGDDPWVEHAKWPRCEFLIRMGQOEVDIEIOGRYPHLEQL 360
DB 301 NDDVKCFCCDGGJRCWESGDDPWVEHAKWPRCEFLIRMGQOEVDIEIOGRYPHLEQL 360
QY 361 STSDTGEENADPPIIHFGGSESSSDAVMMNTPVVKSALMGNRDLVQVOTVOSKILLT 420
DB 361 STSDTGEENADPPIIHFGGSESSSDAVMMNTPVVKSALMGNRDLVQVOTVOSKILLT 420
QY 421 GENKTYNDIVSALNADDEREEREKEKQAEASDLSLRKRNALFQOLTCVPIILD 480
DB 421 GENKTYNDIVSALNADDEREEREKEKQAEASDLSLRKRNALFQOLTCVPIILD 480
QY 481 NLTANVINQOEHDIIKQKQIPLQARELIDTILVKNAAANTPKNLCKEIDSTLYNLF 540
DB 481 NLTANVINQOEHDIIKQKQIPLQARELIDTILVKNAAANTPKNLCKEIDSTLYNLF 540
QY 541 VDKNMKTIPTEDVSGLSLEQLRLQERTCKVCMDEKSVVFLPCGHLVVCOCAPSLR 600
DB 541 VDKNMKTIPTEDVSGLSLEQLRLQERTCKVCMDEKSVVFLPCGHLVVCOCAPSLR 600
QY 601 KCPICRGITIGTATPIS 618
DB 601 KCPICRGITIGTATPIS 618

```

RESULT 6  
US-10-232-286-14

```

Sequence 14, Application US/10232286
Publication No. US20030143579A1
GENERAL INFORMATION:
APPLICANT: Rothe, Mike
TITLE OF INVENTION: INHIBITORS OF APOPTOSIS
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSER: FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT
STREET: 4 Embarcadero Center, Suite 3400
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111

```

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COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/232,286
FILING DATE: 30-Aug-2002
CLASSIFICATION: <Unknown>
PRIORITY INFORMATION:
APPLICATION NUMBER: US/08/569,749
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Brezner, David J.
REGISTRATION NUMBER: 24,774
REFERENCE/DOCKET NUMBER: A-62464/DJB
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415)781-1989
TELEFAX: (415)398-3249
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 612 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 14:
US-10-232-286-14

```

```

Query Match          83.2%; Score 2728; DB 12; Length 612;
Best Local Similarity 83.4%; Pred. No. 2.3e-232;
Matches 517; Conservative 45; Mismatches 48; Indels 10; Gaps 6;

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QY 1 MHKTASQRLPFGPSYONIKSIMEDSTILSDWTNSNKKQKTDPSCELYRMSTYSTPPAGV 60
DB 1 MHKTASQRLPFGPSYONIKSIMEDSTILSDWTNSNKKQKTDPSCELYRMSTYSTPPAGV 60
QY 61 PVSRSLARAGFYTYGVNDKVKCCGGLMDNWKLGSPLOKHQOLYPSGFIQNLVSAS 120
DB 61 PVSRSLARAGFYTYGVNDKVKCCGGLMDNWKLGSPLOKHQOLYPSGFIQNLVSAS 120
QY 121 LGSTSKNTSPMRNSFAHSLPTLHSSLSFGSYSSLSPNPLNSRAVEDISSRTNPYSYA 180
DB 121 LGSTSKNTSPMRNSFAHSLPTLHSSLSFGSYSSLSPNPLNSRAVEDISSRTNPYSYA 180
QY 181 MSTEABFLTYHMPPLTFLSPSELARAGFYTYIGDRAVA.PACGGLSNMPEKDDAMSEH 240
DB 181 MSTEABFLTYHMPPLTFLSPSELARAGFYTYIGDRAVA.PACGGLSNMPEKDDAMSEH 240
QY 241 RRHFPNCPLENSLETIRFSISNLSMOTHAARMTFMYWSSVVOPEOLASAGFYTYGR 300
DB 241 RRHFPNCPLENSLETIRFSISNLSMOTHAARMTFMYWSSVVOPEOLASAGFYTYGR 300
QY 301 NDDVKCFCCDGGJRCWESGDDPWVEHAKWPRCEFLIRMGQOEVDIEIOGRYPHLEQL 360
DB 301 NDDVKCFCCDGGJRCWESGDDPWVEHAKWPRCEFLIRMGQOEVDIEIOGRYPHLEQL 360
QY 361 STSDTGEENADPPIIHFGGSESSSDAVMMNTPVVKSALMGNRDLVQVOTVOSKILLT 420
DB 361 STSDTGEENADPPIIHFGGSESSSDAVMMNTPVVKSALMGNRDLVQVOTVOSKILLT 420

```

Db 354 STSDTGEENADPTETVHFGGE--SSFDVVMSTPVYKALEMGPSSSLVQTVQRI 412  
Qy 419 TTGENYKTVNDIVSALINADEKREBEKEKQAEEMASDLSLRKNMALFOQLTCVLP 478  
Db 413 ATGENYKTVNDIVSALINADEKREBEKEKQAEEMASDLSLRKNMALFOQLTHVLP 472  
Qy 479 LDNLKAVINKQKHDIIRKQTOIPLQARELIDTVLVGNAANIFKNSLKEIDSTLYKN 538  
Db 473 LDNLKASVITKQKHDIIRKQTOIPLQARELIDTVLVGNAANIFKNSLKEIDSTLYKN 532  
Qy 539 LFVDKMKKTYPTEDVSGLSLEBOLRLQEBRTCKVCMDEKSVVFPICGHLVWCBCAPS 598  
Db 533 LFVEKNMKTYPTEDVSGLSLEBOLRLQEBRTCKVCMDEKSVVFPICGHLVWCBCAPS 592  
Qy 599 LKRCPIRGITIKGTVRTFLS 618  
Db 593 LKRCPIRGITIKGTVRTFLS 612

## RESULT 7

US-09-974-592-14  
Sequence 14, Application US/09974592  
Patent No. US20020120121A1  
GENERAL INFORMATION:  
APPLICANT: Korneluk, Robert G  
APPLICANT: Mackenzie, Alexander E  
APPLICANT: Liston, Peter  
APPLICANT: Baird, Stephen  
APPLICANT: Tsang, Benjamin K  
APPLICANT: Pratt, Christine  
TITLE OF INVENTION: DETECTION AND MODULATION OF IAPs AND  
TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
DISEASE  
FILE REFERENCE: 07891/009004  
CURRENT FILING DATE: 2001-10-09  
PRIOR FILING DATE: 2001-10-09  
PRIOR APPLICATION NUMBER: US 09/617, 053  
PRIOR FILING DATE: 2000-07-14  
PRIOR APPLICATION NUMBER: US 08/800, 929  
PRIOR FILING DATE: 1997-02-13  
NUMBER OF SEQ ID NOS: 17  
SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 14  
LENGTH: 612  
TYPE: PRN  
ORGANISM: Mus musculus  
US-09-974-592-14

Query Match 83.1%; Score 2724; DB 10; Length 612;  
Best Local Similarity 83.2%; Pred. No. 5.2e-232;  
Matches 516; Conservative 46; Mismatches 48; Indels 10; Gaps 6;

Qy 1 MHKTASORLFPGPYONIKSIMESTLSDWTNKNKMKYVFCSELYRMSTYTPFAGV 60  
Db 1 MDKTVSQRLGGTTHQKIKRIMKSTLISNWKSEBEKMFVFCSELYRMSTYTPFAGV 60  
Qy 61 PVSRSLARAGFYITGVNDKVCFCGGLMDNWKLGSPFIQKHQLYPSCSFIONLYSAS 120  
Db 61 PVSRSLARAGFYITGVNDKVCFCGGLMDNWKLGSPFIQKHQLYPSCSFIONLYSAS 120  
Qy 121 LGSSTKTSMPKRNFAHSLSTLHSSLSFGSYSSLSNPPLNSRAVEDISSRTNPYSYA 180  
Db 121 LGSSTKTSMPKRNFAHSLSTLHSSLSFGSYSSLSNPPLNSRAVEDISSRTNPYSYA 180  
Qy 121 LGSSTKTSMPKRNFAHSLSTLHSSLSFGSYSSLSNPPLNSRAVEDISSRTNPYSYA 180  
Db 121 LGSSTKTSMPKRNFAHSLSTLHSSLSFGSYSSLSNPPLNSRAVEDISSRTNPYSYA 180  
Qy 181 MSTEERAFLYTHMPLTFPLSPSELARAGFYITGPDVAVACGAGKLSNWEPPKODANSEH 240  
Db 174 MSTEERAFLYTHMPLTFPLSPSELARAGFYITGPDVAVACGAGKLSNWEPPKODANSEH 233  
Qy 241 RRHFPNCPLENSLETLRFSISNLSMOTHAARMKTFMWPSSVVPQEQULASAGFYTVGR 300  
Db 234 RRHFPNCPLENSLETLRFSISNLSMOTHAARMKTFMWPSSVVPQEQULASAGFYTVGR 293  
Qy 301 NDDVYKCCCGGGLACWESGDDPWTBHAAMPKRCFELIRMGQGFVDEIQGRYPHILEQL 360

Db 294 NDDVYKCCCGGGLACWESGDDPWTBHAAMPKRCFELIRMGQGFVDEIQGRYPHILEQL 353  
Qy 361 STSDTGEENADP--PIIHFGPSSSEDVMMNTPVYKSALEMGNRDVYKOVOSITL 418  
Db 354 STSDTGEENADPTEYTHFGGE--SSKDVMVSTPVYKALEMGPSSSLVQTVQRI 412  
Qy 419 TTGENYKTVNDIVSALINADEKREBEKEKQAEEMASDLSLRKNMALFOQLTCVLP 478  
Db 413 ATGENYKTVNDIVSALINADEKREBEKEKQAEEMASDLSLRKNMALFOQLTHVLP 472  
Qy 479 LDNLKAVINKQKHDIIRKQTOIPLQARELIDTVLVGNAANIFKNSLKEIDSTLYKN 538  
Db 473 LDNLKASVITKQKHDIIRKQTOIPLQARELIDTVLVGNAANIFKNSLKEIDSTLYKN 532  
Qy 539 LFVDKMKKTYPTEDVSGLSLEBOLRLQEBRTCKVCMDEKSVVFPICGHLVWCBCAPS 598  
Db 533 LFVEKNMKTYPTEDVSGLSLEBOLRLQEBRTCKVCMDEKSVVFPICGHLVWCBCAPS 592  
Qy 599 LKRCPIRGITIKGTVRTFLS 618  
Db 593 LKRCPIRGITIKGTVRTFLS 612

## RESULT 8

US-09-201-936-42  
Sequence 42, Application US/09201936  
Publication No. US20020187946A1  
GENERAL INFORMATION:  
APPLICANT: Korneluk, Robert G.  
APPLICANT: Mackenzie, Alexander E.  
APPLICANT: Liston, Peter  
TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY, PRIMERS,  
AND DETECTION METHODS  
FILE REFERENCE: 07891/003003  
CURRENT FILING DATE: US/09/201, 936  
PRIOR FILING DATE: 1998-12-01  
PRIOR APPLICATION NUMBER: 09/011,356  
PRIOR FILING DATE: 1998-02-04  
PRIOR APPLICATION NUMBER: PCT/IB96/01022  
PRIOR FILING DATE: 1996-08-05  
PRIOR APPLICATION NUMBER: 08/576, 956  
PRIOR FILING DATE: 1995-12-22  
PRIOR APPLICATION NUMBER: 08/511,485  
PRIOR FILING DATE: 1995-08-04  
NUMBER OF SEQ ID NOS: 45  
SOFTWARE: FASTSEQ for Windows Version 3.0  
SEQ ID NO 42  
LENGTH: 591  
TYPE: PRN  
ORGANISM: Mus musculus  
US-09-201-936-42

Query Match 81.0%; Score 2654; DB 10; Length 591;  
Best Local Similarity 83.8%; Pred. No. 7.7e-226;  
Matches 502; Conservative 44; Mismatches 43; Indels 10; Gaps 6;

Qy 22 MESTLSDWTNKNKMKYVFCSELYRMSTYTPFAGVVSRSRLARAGFYITGVNDK 81  
Db 1 MESTLSDWTNKNKMKYVFCSELYRMSTYTPFAGVVSRSRLARAGFYITGVNDK 60  
Qy 82 KCCCGGLMDNWKLGSPFIQKHQLYPSCSFIONLYSASISGTSKTSMPKRNFAHSLSP 141  
Db 61 KCCCGGLMDNWKLGSPFIQKHQLYPSCSFIONLYSASISGTSKTSMPKRNFAHSLSP 119  
Qy 142 TLRHSLFSGSYSSLSNPPLNSRAVEDISSRTNPYSYANSTEARPLTYHMPPLTFPLSP 201  
Db 120 -LER---GGIHSNLCSSPLNSRAVEDP--SSRMDPCSYAMSTEARFLTYHMPPLTFPLSP 173  
Qy 202 SELARAGFYITGPDVAVACGAGKLSNWEPPKODANSEHRRHFPNCPLENSLETLRFSI 261  
Db 174 SELARAGFYITGPDVAVACGAGKLSNWEPPKODANSEHRRHFPNCPLENSLETLRFSI 233

QY 262 SNLSMOTHAARMRTMTPSSVVPQPEOLASAGFYTGINDVYKCFCCDGLRCWESGDD 321  
 DB 234 SNLSMOTHAARMRTMTPSSVVPQPEOLASAGFYTGINDVYKCFCCDGLRCWESGDD 293  
 QY 322 PMWEHAKMFRCEFLIRMGQEPVDEIQGRYPHLEBLSTSDTGTENADP--PIIHFG 319  
 DB 294 PMWEHAKMFRCEFLIRMGQEPVDEIQGRYPHLEBLSTSDTGTENADPPIETVHFG 353  
 QY 380 PGSSSEDAVMNMTVPVYSALMGFNRLVKQFVQSILTTGENYKTVNDIVSALLNAED 439  
 DB 354 PGE-SSDDVVMSTPVPKALMGFSKSLVRQVQRIIATGENYKTVNDIVSALLNAED 412  
 QY 440 EKEEEKKQAEEMASDLSLIRKNMALFQOLTCVLPILDNLKANVINKOEHDIIKOK 499  
 DB 413 ERREEKERQTEEMASDLSLIRKNMALFQOLTCVLPILDNLKANVINKOEHDIIKOK 472  
 QY 500 TQPLQARELIDTLVKGNAANIFKQCLKEIDSTLYKNLPVDKMKYITBEDVSGLSL 559  
 DB 473 TQPLQARELIDTLVKGNAANIFKQCLKEIDSTLYKNLPVDKMKYITBEDVSGLSL 532  
 QY 560 EQLRLQERTCKVCMDEKSVVFIPEGHLVCOECAPSARKPCICGIIKGTVPFLS 618  
 DB 533 EQLRLQERTCKVCMDEKSVVFIPEGHLVCOECAPSARKPCICGIIKGTVPFLS 591

## RESULT 9

US-10-232-286-4  
 ; Sequence 4, Application US/10232286  
 ; Publication No. US20030143579A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Rothe, Mike  
 ; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
 ; NUMBER OF SEQUENCES: 14  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT  
 ; STREET: 4 Embarras Center, Suite 3400  
 ; CITY: San Francisco  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 94111  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; OPERATING SYSTEM: IBM PC compatible  
 ; SOFTWARE: Patent in Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/10/232,286  
 ; FILING DATE: 30-Aug-2002  
 ; CLASSIFICATION: <Unknown>  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/569,749  
 ; FILING DATE: <Unknown>  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Brezner, David J.  
 ; REGISTRATION NUMBER: 24,774  
 ; REFERENCE/DOCKET NUMBER: A-62464/DJB  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (415)781-1989  
 ; TELEFAX: (415)398-3249  
 ; INFORMATION FOR SEQ ID NO: 4:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 604 amino acids  
 ; TYPE: amino acid  
 ; STRANDEDNESS: single  
 ; TOPOLOGY: linear  
 ; MOLECULE TYPE: protein  
 ; SEQUENCE DESCRIPTION: SEQ ID NO: 4:  
 ; US-10-232-286-4

Query Match 71.8%; Score 2353; DB 12; Length 604;  
 Best Local Similarity 72.8%; Pred. No. 3.5e-199;

Matches 440; Conservative 71; Mismatches 87; Indels 6; Gaps 5;  
 QY 20 SIMEDSTILSDWTNS-NKQMKYDSCCELYRMSSTYSPAGVPSERSLARAGFYTGYN 78  
 DB 2 NIVENSIFLSNLMKANTELKIDSLCELYRMSSTYSPAGVPSERSLARAGFYTGYN 61  
 QY 79 DYKVCFCGGLMDNMGDSPIQKHQOLYPCSPFQNLVSA-SLGSTSKNTSD--MRNSF 135  
 DB 62 DYKVCFCGGLMDNMGDSPTEKHQOLYPCSPFQNLVSA-SLGSTSKNTSD--MRNSF 120  
 QY 136 ANSLSTLEHSSLPFGSSYSLSPPNPLASRAVDISSKRNPNFSYAMSTEARFLTHMP 195  
 DB 121 THSLPFTENSGYFRGSSYNSPNSPNSRANODFSALMRSYHCANNENALTLTQTP 180  
 QY 196 LTFELSPSELARAGFYTGPGDRVACPCAGCKSNNEPKDASERRRHPNCPFLENSL- 254  
 DB 181 LTFELSTDLAKAGFYTGPGDRVACPCAGCKSNNEPKDASERRRHPNCPFLENSL- 240  
 QY 255 ETLRFISNLSMOTHAARMRTMTPSSVVPQPEOLASAGFYTGINDVYKCFCCDGLR 314  
 DB 241 DTSRYTVSNLSMOTHAARMRTMTPSSVVPQPEOLASAGFYTGINDVYKCFCCDGLR 300  
 QY 315 CWESGDDPVWEHAKMFRCEFLIRMGQEPVDEIQGRYPHLEBLSTSDTGTENADP 374  
 DB 301 CWESGDDPVWEHAKMFRCEFLIRMGQEPVDEIQGRYPHLEBLSTSDTGTENADP 360  
 QY 375 IIFGPGSSSEDAVMNMTVPVYSALMGFNRLVKQFVQSILTTGENYKTVNDIVSAL 434  
 DB 361 IIFGPGSSSEDAVMNMTVPVYSALMGFNRLVKQFVQSILTTGENYKTVNDIVSAL 420  
 QY 435 LNADEKREBEKQAEEMASDLSLIRKNMALFQOLTCVLPILDNLKANVINKOEHD 494  
 DB 421 LNADEKREBEKQAEEMASDLSLIRKNMALFQOLTCVLPILDNLKANVINKOEHD 480  
 QY 495 IIRKQTOPLQARELIDTLVKGNAANIFKQCLKEIDSTLYKNLPVDKMKYITBEDV 554  
 DB 481 IIRKQTOPLQARELIDTLVKGNAANIFKQCLKEIDSTLYKNLPVDKMKYITBEDV 540  
 QY 555 GLSLEQLRLQERTCKVCMDEKSVVFIPEGHLVCOECAPSARKPCICGIIKGTVP 614  
 DB 541 GLSLEQLRLQERTCKVCMDEKSVVFIPEGHLVCOECAPSARKPCICGIIKGTVP 600  
 QY 615 TFLS 618  
 DB 601 TFLS 604

## RESULT 10

US-10-141-618-6  
 ; Sequence 6, Application US/10141618  
 ; Publication No. US20030165887A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Reed, John C.  
 ; TITLE OF INVENTION: Methods For Determining the Prognosis  
 ; FILE OF INVENTION: For Cancer Patients Using Tumor  
 ; FILE REFERENCE: P-LJ 5254  
 ; CURRENT APPLICATION NUMBER: US/10/141,618  
 ; PRIOR FILING DATE: 2002-05-07  
 ; PRIOR APPLICATION NUMBER: US 60/289,233  
 ; PRIOR FILING DATE: 2001-05-07  
 ; PRIOR APPLICATION NUMBER: US 60/356,934  
 ; PRIOR FILING DATE: 2002-02-12  
 ; PRIOR APPLICATION NUMBER: US 09/388,221  
 ; PRIOR FILING DATE: 1999-09-01  
 ; NUMBER OF SEQ ID NOS: 15  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO: 6  
 ; LENGTH: 604  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens  
 ; US-10-141-618-6

Query Match 71.8%; Score 2353; DB 12; Length 604;



Best Local Similarity 72.8%; Pred. No. 3.5e-199;  
Matches 440; Conservative 71; Mismatches 87; Indels 6; Gaps 5;  
QY 20 SIMEDSTILSDWNTS-NKOKKYDPSCELRYMSTYSTFPAGVPVPSERSLARAGFYTTGVN 78  
Db 2 NIVENSIFLSNLMKMSANTFELKYLDSCELYRMSTYSTFPAGVPVPSERSLARAGFYTTGVN 61  
QY 79 DKVCFCCGMLDNWKLGDSPIQKHQOLYPCSCFQNLVSA-SIGSTSKNTSP-MRNSF 135  
Db 62 DKVCFCCGMLDNWKRGDSPTKHKKLYPCSCFQNLVSA-SIGSTSKNTSP-MRNSF 120  
QY 136 AHSISPTLHSSLSFGSYSLSPNPLNRAVEDISSRNTNYSYMSREARFLTYHMP 195  
Db 121 THSLPGLTENGSGYFRGYSNSPNSRNADPSALMRSSIPCPMNNENARLLFTQWPL 180  
QY 196 LTFPSBELARAGFYIIGPGRVACFACGKLSNWEPRDAMSEHRRHFPNCPFLNSL- 254  
Db 181 LTFPSPTDLARAGFYIIGPGRVACFACGKLSNWEPRDAMSEHRRHFPNCPFLNSL- 240  
QY 255 ETLPFSISNLSMOTHAARMTFMTWPSSVPVQPOLASAGFYTYGRNDVYKCCDGLR 314  
Db 241 DTSRYTVSNLSMOTHAARMTFMTWPSSVPVQPOLASAGFYTYGRNDVYKCCDGLR 300  
QY 315 CMESGDDPWVHAHAKMPPRCCEFLIRKGOEPVDEIOGRYPHLEQLSTSDTGENADPP 374  
Db 301 CMESGDDPWVHAHAKMPPRCCEFLIRKGOEPVDEIOGRYPHLEQLSTSDTGENADPP 360  
QY 375 IIRHGPSSSEDAVMNMTPVYKSALEWGFNRDLVQVQSKILLTGENTYVNDIVSAL 434  
Db 361 IIRHGPSSSEDAVMNMTPVYKSALEWGFNRDLVQVQSKILLTGENTYVNDIVSAL 420  
QY 435 LNADEKREBEKEKQAEEMASDLSLRKNMALPOOLTCVLPILNLIKANVINKOEH 494  
Db 421 LNADEKREBEKEKQAEEMASDLSLRKNMALPOOLTCVLPILNLIKANVINKOEH 480  
QY 495 IIRKTOIPLQARELIDTILYKGNAAANI PNKCLKEIDSTLYKULFYDKMKKYPTBVS 554  
Db 481 IIRKTOIPLQARELIDTILYKGNAAANI PNKCLKEIDSTLYKULFYDKMKKYPTBVS 540  
QY 555 GLSBEQLRLQEBRTCKVCMDEKSVVFIPOGHLVYCOECAPSLRKPCIRGIIKTVR 614  
Db 541 GLSBEQLRLQEBRTCKVCMDEKSVVFIPOGHLVYCOECAPSLRKPCIRGIIKTVR 600  
QY 615 TFLS 618  
Db 601 TFLS 604  
RESULT 11  
US-09-974-592-6  
Sequence 6, Application US/09974592  
Patent No. US20020120121A1  
GENERAL INFORMATION:  
APPLICANT: Korneluk, Robert G  
APPLICANT: Mackenzie, Alexander E  
APPLICANT: Liston, Peter  
APPLICANT: Baird, Stephen  
APPLICANT: Tsang, Benjamin K  
APPLICANT: Pratt, Christine  
TITLE OF INVENTION: DETECTION AND MODULATION OF IAPs AND  
TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
DISEASE  
FILE REFERENCE: 07891/009004  
CURRENT FILING DATE: US/09/974,592  
PRIOR APPLICATION NUMBER: US/09/617,053  
PRIOR FILING DATE: 2000-07-14  
PRIOR APPLICATION NUMBER: US/08/800,929  
PRIOR FILING DATE: 1997-02-13  
NUMBER OF SEQ ID NOS: 17  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 6  
LENGTH: 604

QY 20 SIMEDSTILSDWNTS-NKOKKYDPSCELRYMSTYSTFPAGVPVPSERSLARAGFYTTGVN 78  
Db 2 NIVENSIFLSNLMKMSANTFELKYLDSCELYRMSTYSTFPAGVPVPSERSLARAGFYTTGVN 61  
QY 79 DKVCFCCGMLDNWKLGDSPIQKHQOLYPCSCFQNLVSA-SIGSTSKNTSP-MRNSF 135  
Db 62 DKVCFCCGMLDNWKRGDSPTKHKKLYPCSCFQNLVSA-SIGSTSKNTSP-MRNSF 120  
QY 137 HSLSPTEHSSLSFGSYSLSPNPLNRAVEDISSRNTNYSYMSREARFLTYHMP 196  
Db 122 HSLSPTEHSSLSFGSYSLSPNPLNRAVEDISSRNTNYSYMSREARFLTYHMP 181  
QY 197 TFLSPBELARAGFYIIGPGRVACFACGKLSNWEPRDAMSEHRRHFPNCPFLNSL-E 255  
Db 182 TFLSPBELARAGFYIIGPGRVACFACGKLSNWEPRDAMSEHRRHFPNCPFLNSL-E 241  
QY 256 TLRPSISNLSMOTHAARMTFMTWPSSVPVQPOLASAGFYTYGRNDVYKCCDGLR 315  
Db 242 TLRPSISNLSMOTHAARMTFMTWPSSVPVQPOLASAGFYTYGRNDVYKCCDGLR 301  
QY 316 MESGDDPWVHAHAKMPPRCCEFLIRKGOEPVDEIOGRYPHLEQLSTSDTGENADPP 375  
Db 302 MESGDDPWVHAHAKMPPRCCEFLIRKGOEPVDEIOGRYPHLEQLSTSDTGENADPP 361  
QY 376 IIRHGPSSSEDAVMNMTPVYKSALEWGFNRDLVQVQSKILLTGENTYVNDIVSAL 435  
Db 362 IIRHGPSSSEDAVMNMTPVYKSALEWGFNRDLVQVQSKILLTGENTYVNDIVSAL 421  
QY 436 LNADEKREBEKEKQAEEMASDLSLRKNMALPOOLTCVLPILNLIKANVINKOEH 495  
Db 422 LNADEKREBEKEKQAEEMASDLSLRKNMALPOOLTCVLPILNLIKANVINKOEH 481  
QY 496 IIRKTOIPLQARELIDTILYKGNAAANI PNKCLKEIDSTLYKULFYDKMKKYPTBVS 555  
Db 482 IIRKTOIPLQARELIDTILYKGNAAANI PNKCLKEIDSTLYKULFYDKMKKYPTBVS 541  
QY 556 LSLBEQLRLQEBRTCKVCMDEKSVVFIPOGHLVYCOECAPSLRKPCIRGIIKTVR 615  
Db 542 LSLBEQLRLQEBRTCKVCMDEKSVVFIPOGHLVYCOECAPSLRKPCIRGIIKTVR 601  
QY 616 TFLS 618  
Db 602 TFLS 604  
RESULT 12  
US-09-201-936-6  
Sequence 6, Application US/09201936  
Patent No. US20020187946A1  
GENERAL INFORMATION:  
APPLICANT: Korneluk, Robert G  
APPLICANT: Mackenzie, Alexander E  
APPLICANT: Liston, Peter  
APPLICANT: Baird, Stephen  
TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY, PRIMERS,  
TITLE OF INVENTION: PROBES, AND DETECTION METHODS  
FILE REFERENCE: 07891/003003  
CURRENT FILING DATE: US/09/201,936  
PRIOR APPLICATION NUMBER: US/01/1,356  
PRIOR FILING DATE: 1998-12-01  
PRIOR APPLICATION NUMBER: PCT/IB96/01022  
PRIOR FILING DATE: 1996-08-05  
EARLIER APPLICATION NUMBER: 08/576,956  
EARLIER FILING DATE: 1995-12-22

[illegible]

Query Match	71.2%;	Score 2332;	DB 10;	Length 604;
Best Local Similarity	72.1%;	Prod No 3	50-107;	

Qy	20	SIMEDSTILISPMVTS-NQOKMKYDSCBELYRMSVTSSTFPAQVVERSLARAGFYTTGN	78
Db	2	NIVENSIFLSNLMKSNANPELKCYDLSCELYRMSVTSSTFPAQVVERSLARAGFYTTGN	61
Qy	79	DKVCFCCGMLDMNKKLGDSPTQKHKOLYPCSCFLOMVA-SLQSTSKNTSPMRNFA-	136
Db	62	DKVCFCCGMLDMNKKRSDSPTEKHKKYPSCRFVQVSTSVNMLRATSOPTPPSSVTSHT	121
Qy	137	HSLSPTLHSSLSFSGSYSLSPNPLNSRAVEDISSRTNPSYANSTEARALTYHMPPL	196
Db	122	HSLSPTNMSGYFRGSIYSNPNPNRANQCFSLMMS3YCPMNNNAKLLTQTMPL	181
Qy	197	TFLSPELARAAGFYIIGPDRVACFAGCKLSNWEPCDQMSHRHRHPNCPLENSL-E	255
Db	182	TFLSPTDLARAGFYIIGPDRVACFAGCKLSNWEPCDNQMSHRRHPNCPFIENQLD	241
Qy	256	TLRPSISLMSQTHAARMTFMYWSSVYVQEOBLASGFYVGVGNDVYKCCCGGLRC	315
Db	242	TSRTIYSLMSQTHAARMTFMYWSSVYVQEOBLASGFYVGVGNDVYKCCCGGLRC	301
Qy	316	WESGDDPVAWEHAKWFPCEFLIRMKQGFVDEIQGRYPHLTEQLSTSDTTGENADPEI	375
Db	302	WESGDDPVAWEHAKWFPCEFLIRMGQFIRQVQASYPHLTEQLSTSDSPEDENABSI	361
Qy	376	THFGPSSSESDAYVMNTPVYKSALEMGNRDLYQTYQSKLLTTGENYKTYNDIVSALL	435
Db	362	THFGPSSSESDAYVMNTPVYKSALEMGNRSRLVQTYQSKLLTAGENYRLVNDIVLIDL	421
Qy	436	NADEKREERKEKQAEASDLSLIRKRMALFOOLTCVPLIPLNLLKANYINKOEHI	495
Db	422	NADEKREERKEERARERESNDLLIRKRMALFOHLCVYIILDSLLTAGINEQEHV	481
Qy	496	IKOKTQPLQARELIDTILVKGNAANIFKQCLAKEDISTLYKNLFDVKNMKXIPTEDVSG	555
Db	482	IKOKTQSTLQARELIDTILVKGNIATAVFRNSLQAEANLYEHLFVQODIKYIPTEDVSD	541
Qy	556	LSLEBQLRLQBERCTCKYCMQKEVSVPFPGHLYVQCECAPSLAKCPICRGIKGYRT	615
Db	542	LPVEBQLRLQBERCTCKYCMQKEVSIVFPGHLYVQCDAPSLKCPICRSTIGTYRT	601
Qy	616	FLS 618	
Db	602	FLS 604	
RESULT 13			
US-08-464-588-2			
: Sequence 2, Application US/08464588			
: Publication No. US20030073159A1			
: GENERAL INFORMATION:			
: APPLICANT: HE, ET AL.			
: TITLE OF INVENTION: Human Inhibitor of Apoptosis Gene 1			
: NUMBER OF SEQUENCES: 8			
: CORRESPONDENCE ADDRESS:			
: ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,			
: ADDRESSEE: CECCHI, STEWART & OLSTEIN			
: STREET: 6 BECKER FARM ROAD			
: CITY: ROSELAND			
: STATE: NEW JERSEY			

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1      COUNTRY:  USA
2      ZIP:  07068
3      COMPUTER READABLE FORM:
4      MEDIUM TYPE:  3.5 INCH DISKETTE
5      COMPUTER:  IBM PS/2
6      OPERATING SYSTEM:  MS-DOS
7      SOFTWARE:  WORD PERFECT 5.1
8      CURRENT APPLICATION DATA:
9      APPLICATION NUMBER:  US/08/464,588
10     FILING DATE:  June 5, 1995
11     CLASSIFICATION:  514
12     PRIOR APPLICATION DATA:
13     APPLICATION NUMBER:  PCT/US95/05922
14     FILING DATE:  11 MAY 1995
15     ATTORNEY/AGENT INFORMATION:
16     NAME:  FERRARO, GREGORY D.
17     REGISTRATION NUMBER:  36,134
18     REFERENCE/DOCKET NUMBER:  325800-387
19     TELECOMMUNICATION INFORMATION:
20     TELEPHONE:  201-994-1700
21     TELEFAX:  201-994-1744
22     INFORMATION FOR SEQ ID NO:  2:
23     SEQUENCE CHARACTERISTICS:
24     LENGTH:  438 AMINO ACIDS
25     TYPE:  AMINO ACID
26     STRANDEDNESS:
27     TOPOLOGY:  LINEAR
28     MOLECULE TYPE:  PROTEIN
29     US-08-464-588-2

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Query Match	71.0%	Score 2326	DB 8	Length 438
Best Local Similarity	100.0%	Pred. No. 5	le-197	
Matches 438	Conservative 0	Mismatches 0	Indels 0	Gaps 0

Qy	181	MSTEARELTYMMPLTFLSPBELARAFYYIGGDDVACACGGKLSNNEPXDAMSEH	240
Db	1	MSTEARELTYMMPLTFLSPBELARAFYYIGGDRVACACGGKLSNNEPXDAMSEH	60
Qy	241	RRFPNCPLENSLETLRFSISNLSMOTHAARMTFMWPSVVOPEOLASAGFYVGR	3000
Db	61	RRFPNCPLENSLETLRFSISNLSMOTHAARMTFMWPSVVOPEOLASAGFYVGR	120
Qy	301	NDDVKFCDDGLRCWESGDDPWVSHAKMPRCEPLIRMKQEFVDEIQGRYPHLEQL	3600
Db	121	NDDVKFCDDGLRCWESGDDPWVSHAKMPRCEPLIRMKQEFVDEIQGRYPHLEQL	1800
Qy	361	STSDTTGEENADPPIITHSGPGESSSEDVMMNTFVVSALEMGNRLVWQTVOSKILT	420
Db	181	STSDTTGEENADPPIITHSGPGESSSEDVMMNTFVVSALEMGNRLVWQTVOSKILT	240
Qy	421	GENYKTVNDIVSALINAEDEKREBEKEQAEEMASDDLIRKRRMLPOOLTCVPLTD	4800
Db	241	GENYKTVNDIVSALINAEDEKREBEKEQAEEMASDDLIRKRRMLPOOLTCVPLTD	3000
Qy	481	NILKANVINKQEHDIIKQTKQIPLOARELIDTILVKGNAAANIFKNCKEIDSTLYNLF	5400
Db	301	NILKANVINKQEHDIIKQTKQIPLOARELIDTILVKGNAAANIFKNCKEIDSTLYNLF	3600
Qy	541	VDKMKYITTEBVSGLSBEQLRQLQERTCKVCMDEXSVYFIPGHLVVCOCAPSIR	6000
Db	361	VDKMKYITTEBVSGLSBEQLRQLQERTCKVCMDEXSVYFIPGHLVVCOCAPSIR	4200
Qy	601	KCPICRGIIKGTVRTFLS 618	
Db	421	KCPICRGIIKGTVRTFLS 438	
RESULT 14			
US-10-323-643-2			
; Sequence 2, Application US/10323643			
; Publication NO. US20030108552A1			
; GENERAL INFORMATION:			
; APPLICANT: He, et al.			

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; TITLE OF INVENTION: Human Inhibitor of Apoptosis Gene 1
; FILE REFERENCE: PF165PDI
; CURRENT APPLICATION NUMBER: US/10/323,643
; CURRENT FILING DATE: 2002-12-20
; PRIOR APPLICATION NUMBER: 08/464,588
; PRIOR FILING DATE: 1995-06-05
; PRIOR APPLICATION NUMBER: PCT/US95/05922
; PRIOR FILING DATE: 1995-05-11
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patent version 3.1
; SEQ ID NO 2
; LENGTH: 438
; TYPE: prt
; ORGANISM: Homo sapiens
; US-10-323-643-2

Query Match
Best Local Similarity 100.0%; Pred. No. 5,1e-197; Length 438;
Matches 438; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 181 MSTEERARFTYHMMPLTFLSPSELARAGFYIIGPDRAVACFAAGGKLSNWEKDDAMSEH 240
Db 1 MSTEERARFTYHMMPLTFLSPSELARAGFYIIGPDRAVACFAAGGKLSNWEKDDAMSEH 60
QY 241 RHFPNCPLENSLETIRFSISNLSMOTHAARMTFMWFSVVPQEQALASAGFYVGR 300
Db 61 RHFPNCPLENSLETIRFSISNLSMOTHAARMTFMWFSVVPQEQALASAGFYVGR 120
QY 301 NDVAVCFCCDGLRCMESGDDPVVEHAKMFPCEFLIRMKGOBVEIDIGRYPHLLEQL 360
Db 121 NDVAVCFCCDGLRCMESGDDPVVEHAKMFPCEFLIRMKGOBVEIDIGRYPHLLEQL 180
QY 361 STSDTTGEBNADPPIIHFGPGESSSEDVAVMANTPVVKSALBMGFNRDLVKQTVQSKILTT 420
Db 181 STSDTTGEBNADPPIIHFGPGESSSEDVAVMANTPVVKSALBMGFNRDLVKQTVQSKILTT 240
QY 421 GENYTVNDIVSALNADEKREKEKQAEEMASDDLSTLRKNNALFOQLTCLPLILD 480
Db 241 GENYTVNDIVSALNADEKREKEKQAEEMASDDLSTLRKNNALFOQLTCLPLILD 300
QY 481 NLKANVINKQEHDIKQKQIPLQARELIDTILVKGNAANIIFKNCLEIDSTLYKNLF 540
Db 301 NLKANVINKQEHDIKQKQIPLQARELIDTILVKGNAANIIFKNCLEIDSTLYKNLF 360
QY 541 VDKMKYIPTEDVSGLSLEBQLRLQEBRTCKVCMDEKVSIVFPCGHLVVCQECAPSLR 600
Db 361 VDKMKYIPTEDVSGLSLEBQLRLQEBRTCKVCMDEKVSIVFPCGHLVVCQECAPSLR 420
QY 601 KCPICRGIIKGTVRTPLS 618
Db 421 KCPICRGIIKGTVRTPLS 438

RESULT 15
US-09-974-592-12
; Sequence 12, Application US/09974592
; Patent No. US20020120121A1
; GENERAL INFORMATION:
; APPLICANT: Korneluk, Robert G
; APPLICANT: Mackenzie, Alexander E
; APPLICANT: Liston, Peter
; APPLICANT: Baird, Stephen
; APPLICANT: Teang, Benjamin K
; APPLICANT: Pratt, Christine
; TITLE OF INVENTION: DETECTION AND MODULATION OF IAPs AND
; TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE
; TITLE OF INVENTION: DISEASE
; FILE REFERENCE: 07891/009004
; CURRENT APPLICATION NUMBER: US/09/974,592
; CURRENT FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: US 09/617,053
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: US 08/800,929
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; PRIOR FILING DATE: 1997-02-13
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 600
; TYPE: prt
; ORGANISM: Mus musculus
; US-09-974-592-12

Query Match
Best Local Similarity 66.3%; Score 2172; DB 10; Length 600;
Matches 406; Conservative 87; Mismatches 96; Indels 20; Gaps 7;

QY 21 IMEDSTIISDWTNS-NKQKMTDPSGCELYRMSTYSTPAGVPSRSILARAGFYTYGND 79
Db 1 MVQDSAPLAKLMKMSADTPELKYDFSCELRYLSTYSAPRGVPSRSILARAGFYTYGND 60
QY 80 KYKCCGCCGMLDNDWLGSPLOKHKOLYPPSSCFIONLSA-----SLGTSKNTSP 130
Db 61 KYKCCGCCGMLDNDWLGSPLOKHKOLYPPSSCFIONLSA-----SLGTSKNTSP 120
QY 131 MNSFPAHSLPTLEHSLFSGSYSLSNPNLSRAVEDISSRTYPSYAMSTEARFLT 190
Db 121 L--SPASS-----ENTGYFSGSYSFSDPVNFRANQCPALSTPYHFMNTERARLLT 173
QY 191 YHMPPLTFLSPSELARAGFYIIGPDRAVACFAAGGKLSNWEKDDAMSEHRRHPNCPFL 250
Db 174 YETWPLSTFLSPAKLAKAGFYIIGPDRAVACFAAGGKLSNWEKDDAMSEHRRHPNCPFL 233
QY 251 EN-SLETIRFSISNLSMOTHAARMTFMWFSVVPQEQALASAGFYVGRDDVYKRC 309
Db 234 KDLGQASRYSYVSNLSMOTHAARIRTFESNMPSSALVHSEOLASAGFYTYGSDVYKRC 293
QY 310 DGLRCMESGDDPVVEHAKMFPCEFLIRMKGOBVEIDIGRYPHLLEQLSTSDTGBE 369
Db 294 DGLRCMESGDDPVVEHAKMFPCEFLIRMKGOBVEIDIGRYPHLLEQLSTSDTGBE 353
QY 370 NADPEIHFPGGESSSEDVAVMANTPVVKSALBMGFNRDLVKQTVQSKILTTGENYTVND 429
Db 354 NADPAIVHFGPGE--SEEDVAVMSTFVVKALBMGFSRSLVQVQRLATGENYTVND 412
QY 430 IYSALINADEKREKEKQAEEMASDDLSTLRKNNALFOQLTCLPLILDNLKANVIN 489
Db 413 LVIGLDADEKREKEKQAEEMASDDLSTLRKNNALFOQLTCLPLILDNLKANVIN 472
QY 490 KOEHDIKQKQIPLQARELIDTILVKGNAANIIFKNCLEIDSTLYKNLFVDKMKYIPT 549
Db 473 EOCNAVQKQH-TLOASTLIDTILAKGNTAITSFRNSLREIDPALYXIDIFVQDIBSLP 531
QY 550 TEDVSGLSLEBQLRLQEBRTCKVCMDEKVSIVFPCGHLVVCQECAPSLRCPICRGII 609
Db 532 TDDIALPMEBQLRLQEBRMCKVCMDEKVSIVFPCGHLVVCQECAPSLRCPICRGII 591
QY 610 KGTVRTPLS 618
Db 592 KGTVRTPLS 600
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Job time : 92.9369 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 4, 2003, 14:31:50 ; Search time 2.73874 Seconds  
(without alignments)  
741.553 Million cell updates/sec

Title: US-08-569-749-9

Perfect score: 225  
Sequence: 1 PEOIASAGFYVGRNDVKC.....CWESGDDPWVHAHAKFPRCE 48

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA: +  
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2: /cgn2\_6/ptodata/1/iaa/5B.COMB.pep: +  
3: /cgn2\_6/ptodata/1/iaa/6A.COMB.pep: +  
4: /cgn2\_6/ptodata/1/iaa/6B.COMB.pep: +  
5: /cgn2\_6/ptodata/1/iaa/PTCUS.COMB.pep: +  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match length	ID	Description
1	295	100.0	48 3 US-08-569-749-9	Sequence 9, Appli
2	295	100.0	48 5 PCT-US96-12860-9	Sequence 9, Appli
3	295	100.0	438 5 PCT-US95-05322A-2	Sequence 2, Appli
4	295	100.0	618 3 US-08-569-749-2	Sequence 29, Appli
5	295	100.0	618 4 US-09-069-023-29	Sequence 2, Appli
6	295	100.0	618 5 PCT-US96-12860-2	Sequence 27, Appli
7	283	95.9	68 2 US-08-511-485-27	Sequence 27, Appli
8	283	95.9	68 4 US-09-201-936-27	Sequence 8, Appli
9	283	95.9	618 2 US-08-511-485-8	Sequence 8, Appli
10	283	95.9	618 3 US-09-212-971-8	Sequence 8, Appli
11	283	95.9	618 4 US-08-800-929A-8	Sequence 8, Appli
12	283	95.9	618 4 US-09-617-053A-8	Sequence 8, Appli
13	283	95.9	618 4 US-09-201-936-8	Sequence 8, Appli
14	282	95.6	48 3 US-08-569-749-10	Sequence 10, Appli
15	282	95.6	48 5 PCT-US96-12860-10	Sequence 10, Appli
16	282	95.6	68 2 US-08-511-485-26	Sequence 26, Appli
17	282	95.6	68 4 US-09-201-936-26	Sequence 26, Appli
18	282	95.6	604 2 US-08-511-485-6	Sequence 6, Appli
19	282	95.6	604 3 US-09-212-971-6	Sequence 6, Appli
20	282	95.6	604 3 US-08-800-929A-6	Sequence 6, Appli
21	282	95.6	604 3 US-08-569-749-4	Sequence 6, Appli
22	282	95.6	604 4 US-09-617-053A-6	Sequence 6, Appli
23	282	95.6	604 4 US-09-201-936-6	Sequence 6, Appli
24	282	95.6	604 5 PCT-US96-12860-4	Sequence 6, Appli
25	282	95.6	612 3 US-09-212-971-14	Sequence 14, Appli
26	282	95.6	612 3 US-08-800-929A-14	Sequence 14, Appli
27	282	95.6	612 3 US-08-569-749-14	Sequence 14, Appli

28	282	95.6	612 4 US-09-617-053A-14	Sequence 14, Appli
29	282	95.6	612 5 PCT-US96-12860-14	Sequence 14, Appli
30	276	93.6	591 4 US-09-201-936-42	Sequence 42, Appli
31	268	90.8	600 3 US-09-212-971-12	Sequence 12, Appli
32	268	90.8	600 3 US-08-800-929A-12	Sequence 12, Appli
33	268	90.8	600 4 US-09-617-053A-12	Sequence 12, Appli
34	262	88.8	602 4 US-09-201-936-40	Sequence 40, Appli
35	231	78.3	50 3 US-08-975-080-22	Sequence 31, Appli
36	230	78.0	50 3 US-08-975-080-22	Sequence 30, Appli
37	230	78.0	50 3 US-08-975-080-30	Sequence 30, Appli
38	198	67.1	60 4 US-08-657-759-6	Sequence 6, Appli
39	198	67.1	68 4 US-08-511-485-28	Sequence 28, Appli
40	198	67.1	68 4 US-09-201-936-28	Sequence 28, Appli
41	198	67.1	268 3 US-08-836-134-22	Sequence 22, Appli
42	198	67.1	268 4 US-09-493-784-22	Sequence 22, Appli
43	195	66.1	398 4 US-09-127-928-2	Sequence 2, Appli
44	188	63.7	377 4 US-09-502-528-3	Sequence 3, Appli
45	187	63.4	50 3 US-08-975-080-21	Sequence 21, Appli

## ALIGNMENTS

RESULT 1  
US-08-569-749-9  
; Sequence 9, Application US/08569749  
; Patent No. 6187557

### GENERAL INFORMATION:

APPLICANT: Rothe, Mike  
APPLICANT: Goeddel, David V  
TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FLEHR, HOEBACH, TEST, ALBRITTON & HERBERT  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111

### COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent in Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/569,749

### FILING DATE:

CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Brezner, David J.  
REGISTRATION NUMBER: 24,774  
REFERENCE/DOCKET NUMBER: A-62464/DJB  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415)781-1969  
TELEFAX: (415)398-3249

### INFORMATION FOR SEQ ID NO: 9:

SEQUENCE CHARACTERISTICS:  
LENGTH: 48 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-569-749-9

Query Match 100.0%; Score 295; DB 3; Length 48;  
Best Local Similarity 100.0%; Pred. No. 4.8e-30;  
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 PEOIASAGFYVGRNDVKCFCCDGLRCWESGDDPWVHAHAKFPRCE 48  
1 PEOIASAGFYVGRNDVKCFCCDGLRCWESGDDPWVHAHAKFPRCE 48

RESULT 2  
PCT-US96-12860-9  
Sequence 9, Application PC/TUS9612860  
GENERAL INFORMATION:  
APPLICANT: TULARIK, INC.  
TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/12860  
FILING DATE: 06 AUG 1996  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: U.S. Serial Nos. 08/512,946 & 08/569,749  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Brezner, David J.  
REGISTRATION NUMBER: 24,774  
REFERENCE/DOCKET NUMBER: A-62464/DJB  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415)781-1989  
TELEFAX: (415)398-3249  
INFORMATION FOR SEQ ID NO: 9:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 48 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
PCT-US96-12860-9

Query Match 100.0%; Score 295; DB 5; Length 48;  
Best Local Similarity 100.0%; Pred. No. 4.8e-30;  
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PEOLASAGFYVGRNDVRCFCDDGGLRCWESGDDPWVHAKEPPE 48  
Db 1 PEOLASAGFYVGRNDVRCFCDDGGLRCWESGDDPWVHAKEPPE 48

RESULT 3  
PCT-US95-05922A-2  
Sequence 2, Application PC/TUS9505922A  
GENERAL INFORMATION:  
APPLICANT: HE, ET AL.  
TITLE OF INVENTION: Human Inhibitor of Apoptosis Gene 1  
NUMBER OF SEQUENCES: 8  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: CARELLA, BYRNE, BAIN, GIFFILLAN,  
ADDRESS: CECCHI, STEWART & OLSTEIN  
STREET: 6 BECKER FARM ROAD  
CITY: ROSELAND  
STATE: NEW JERSEY  
COUNTRY: USA  
ZIP: 07068  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 INCH DISKETTE  
COMPUTER: IBM PS/2  
OPERATING SYSTEM: MS-DOS  
SOFTWARE: WORD PERFECT 5.1  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/05922A

FILING DATE: 11 MAY 1995  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: FERRARO, GREGORY D.  
REGISTRATION NUMBER: 36,134  
REFERENCE/DOCKET NUMBER: 325800-292  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 201-994-1700  
TELEFAX: 201-994-1744  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 438 AMINO ACIDS  
TYPE: AMINO ACID  
STRANDEDNESS:  
TOPOLOGY: LINEAR  
MOLECULE TYPE: PROTEIN  
PCT-US95-05922A-2

Query Match 100.0%; Score 295; DB 5; Length 438;  
Best Local Similarity 100.0%; Pred. No. 5.3e-29;  
Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PEOLASAGFYVGRNDVRCFCDDGGLRCWESGDDPWVHAKEPPE 48  
Db 107 PEOLASAGFYVGRNDVRCFCDDGGLRCWESGDDPWVHAKEPPE 154

RESULT 4  
US-08-569-749-2  
Sequence 2, Application US/08569749  
Patent No. 6187557  
GENERAL INFORMATION:  
APPLICANT: Rothe, Mike  
APPLICANT: Goeddel, David V  
TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/569,749  
FILING DATE:  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Brezner, David J.  
REGISTRATION NUMBER: 24,774  
REFERENCE/DOCKET NUMBER: A-62464/DJB  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415)781-1989  
TELEFAX: (415)398-3249  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 618 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-569-749-2

Query Match 100.0%; Score 295; DB 3; Length 618;  
Best Local Similarity 100.0%; Pred. No. 7.6e-29;

Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PEOLASAGFYVGRNDVVKCFCCDGLRCWESGDDPWVEHAKWPPRCE 48  
Db 287 PEOLASAGFYVGRNDVVKCFCCDGLRCWESGDDPWVEHAKWPPRCE 334

RESULT 5  
US-09-069-023-29

; Sequence 29, Application US/09069023A

; Patent No. 6348573

; GENERAL INFORMATION:

; APPLICANT: Nunez, Gabriel

; APPLICANT: Inohara, Naohito

; APPLICANT: Koseki, Takeyoshi

; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR IDENTIFYING APOPTOSIS

; FILE REFERENCE: UM-03333

; CURRENT APPLICATION NUMBER: US/09/069,023A

; FILING DATE: 1998-04-27

; NUMBER OF SEQ ID NOS: 38

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 29

; LENGTH: 618

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-069-023-29

Query Match 100.0%; Score 295; DB 4; Length 618;

Best Local Similarity 100.0%; Pred. No. 7.6e-29;

Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PEOLASAGFYVGRNDVVKCFCCDGLRCWESGDDPWVEHAKWPPRCE 48  
Db 287 PEOLASAGFYVGRNDVVKCFCCDGLRCWESGDDPWVEHAKWPPRCE 334

RESULT 6  
PCT-US96-12860-2

; Sequence 2, Application PC/TUS9612860

; GENERAL INFORMATION:

; APPLICANT: TULARIK, INC.

; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS

; NUMBER OF SEQUENCES: 14

; CORRESPONDENCE ADDRESS: ADDRESSEE: FLEHR, HOBBACH, TEST, ALBRITTON & HERBERT

; STREET: 4 Embarcadero Center, Suite 3400

; CITY: San Francisco

; STATE: California

; COUNTRY: USA

; ZIP: 94111

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA: APPLICATION NUMBER: PCT/US96/12860

; FILING DATE: 06 AUG 1996

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: U.S. Serial Nos. 08/512,946 & 08/569,749

; CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Brezner, David J.

; REGISTRATION NUMBER: 24,774

; REFERENCE/DOCKET NUMBER: A-62464/DJB

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (415)781-1989

; TELEFAX: (415)398-3249

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 618 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: protein

PCT-US96-12860-2

Query Match 100.0%; Score 295; DB 5; Length 618;

Best Local Similarity 100.0%; Pred. No. 7.6e-29;

Matches 48; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 PEOLASAGFYVGRNDVVKCFCCDGLRCWESGDDPWVEHAKWPPRCE 48  
Db 287 PEOLASAGFYVGRNDVVKCFCCDGLRCWESGDDPWVEHAKWPPRCE 334

RESULT 7  
US-08-511-485-27

; Sequence 27, Application US/08511485

; Patent No. 591912

; GENERAL INFORMATION:

; APPLICANT: Korneluk, Robert G.

; APPLICANT: Mackenzie, Alexander E.

; APPLICANT: Baird, Stephen

; TITLE OF INVENTION: MAMMALIAN TAP GENE FAMILY, PRIMERS,

; NUMBER OF SEQUENCES: 38

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fish & Richardson P.C.

; STREET: 225 Franklin Street

; CITY: Boston

; STATE: MA

; COUNTRY: USA

; ZIP: 02110-2804

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA: APPLICATION NUMBER: US/08/511,485

; FILING DATE: 04-AUG-1995

; CLASSIFICATION: 514

; ATTORNEY/AGENT INFORMATION:

; NAME: Clark, Paul T.

; REGISTRATION NUMBER: 30,162

; REFERENCE/DOCKET NUMBER: 07540/002001

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 617/542-5070

; TELEFAX: 617/542-8906

; TELEX: 200154

; INFORMATION FOR SEQ ID NO: 27:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 68 amino acids

; TYPE: amino acid

; STRANDEDNESS: not relevant

; TOPOLOGY: both

; MOLECULE TYPE: protein

US-08-511-485-27

Query Match 95.9%; Score 283; DB 2; Length 68;

Best Local Similarity 97.9%; Pred. No. 2.2e-28;

Matches 47; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PEOLASAGFYVGRNDVVKCFCCDGLRCWESGDDPWVEHAKWPPRCE 48  
Db 19 PEOLASAGFYVGRNDVVKCFCCDGLRCWESGDDPWVEHAKWPPRCE 66

RESULT 8  
US-09-201-936-27

; Sequence 27, Application US/09201936

; Patent No. 6541457

; GENERAL INFORMATION:

APPLICANT: Korneljuk, Robert G.  
APPLICANT: Mackenzie, Alexander E.  
APPLICANT: Baird, Stephen  
APPLICANT: Liston, Peter  
TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY, PRIMERS,  
FILE REFERENCE: 07891/003003  
CURRENT APPLICATION NUMBER: US/09/201,936  
EARLIER FILING DATE: 1998-12-01  
EARLIER APPLICATION NUMBER: 09/011,356  
EARLIER FILING DATE: 1998-02-04  
EARLIER APPLICATION NUMBER: PCT/1996/01022  
EARLIER FILING DATE: 1996-08-05  
EARLIER APPLICATION NUMBER: 08/576,956  
EARLIER FILING DATE: 1995-12-22  
EARLIER APPLICATION NUMBER: 08/511,485  
EARLIER FILING DATE: 1995-08-04  
NUMBER OF SEQ ID NOS: 45  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 27  
LENGTH: 68  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-201-936-27

Query Match 95.9%; Score 283; DB 4; Length 68;  
Best Local Similarity 97.9%; Pred. No. 2,2e-28;  
Matches 47; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 PEOLASAGFYVGRNDVVKFCDCDGLRCWESGDDPWVHAHAKMPRCE 48  
DB 19 PEOLASAGFYVGRNDVVKFCDCDGLRCWESGDDPWVHAHAKMPRCE 66

RESULT 9  
US-08-511-485-8  
Sequence 8, Application US/08511485  
Patent No. 5919912  
GENERAL INFORMATION:  
APPLICANT: Korneljuk, Robert G.  
APPLICANT: Mackenzie, Alexander E.  
APPLICANT: Baird, Stephen  
TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY, PRIMERS,  
TITLE OF INVENTION: PROBES, AND DETECTION METHODS  
NUMBER OF SEQUENCES: 38  
CORRESPONDENCE ADDRESSES:  
ADDRESSES: Fish & Richardson P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/511,485  
FILING DATE: 04-AUG-1995  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Clark, Paul T.  
REGISTRATION NUMBER: 30,162  
REFERENCE/DOCKET NUMBER: 07540/002001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617/542-5070  
TELEFAX: 617/542-8906  
TELEX: 200154  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 618 amino acids  
TYPE: amino acid

STRANDEDNESS: not relevant  
TOPOLOGY: both  
MOLECULE TYPE: protein  
US-08-511-485-8

Query Match 95.9%; Score 283; DB 2; Length 618;  
Best Local Similarity 97.9%; Pred. No. 2,4e-27;  
Matches 47; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 PEOLASAGFYVGRNDVVKFCDCDGLRCWESGDDPWVHAHAKMPRCE 48  
DB 287 PEOLASAGFYVGRNDVVKFCDCDGLRCWESGDDPWVHAHAKMPRCE 334

RESULT 10  
US-09-212-971-8  
Sequence 8, Application US/09212971B  
Patent No. 6107041  
GENERAL INFORMATION:  
APPLICANT: Korneljuk, Robert G.  
APPLICANT: Mackenzie, Alexander E.  
APPLICANT: Liston, Peter  
APPLICANT: Baird, Stephen  
APPLICANT: Tsang, Benjamin K  
APPLICANT: Pratt, Christine  
TITLE OF INVENTION: DETECTION AND MODULATION OF IAPS AND  
TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
TITLE OF INVENTION: DISEASE  
FILE REFERENCE: 07891/009002  
CURRENT APPLICATION NUMBER: US/09/212,971B  
CURRENT FILING DATE: 1998-12-16  
EARLIER APPLICATION NUMBER: 60/017,354  
EARLIER FILING DATE: 1996-04-26  
EARLIER APPLICATION NUMBER: 60/030,590  
EARLIER FILING DATE: 1996-11-14  
EARLIER APPLICATION NUMBER: 08/800,929  
EARLIER FILING DATE: 1997-02-13  
NUMBER OF SEQ ID NOS: 17  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 8  
LENGTH: 618  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-212-971-8

Query Match 95.9%; Score 283; DB 3; Length 618;  
Best Local Similarity 97.9%; Pred. No. 2,4e-27;  
Matches 47; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 PEOLASAGFYVGRNDVVKFCDCDGLRCWESGDDPWVHAHAKMPRCE 48  
DB 287 PEOLASAGFYVGRNDVVKFCDCDGLRCWESGDDPWVHAHAKMPRCE 334

RESULT 11  
US-08-800-929A-8  
Sequence 8, Application US/08800929A  
Patent No. 6133437  
GENERAL INFORMATION:  
APPLICANT: Korneljuk, Robert G.  
APPLICANT: Mackenzie, Alexander E.  
APPLICANT: Liston, Peter  
APPLICANT: Baird, Stephen  
APPLICANT: Tsang, Benjamin K  
APPLICANT: Pratt, Christine  
TITLE OF INVENTION: DETECTION AND MODULATION OF  
TITLE OF INVENTION: IAPS AND NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
TITLE OF INVENTION: DISEASE  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESSES:  
ADDRESSES: Clark & Elbing LLP  
STREET: 176 Federal Street  
CITY: Boston

STATE: MA  
COUNTRY: USA  
ZIP: 02110  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/800,929A  
FILING DATE: 13-FEB-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/030,590  
FILING DATE: 14-NOV-1996  
APPLICATION NUMBER: 60/017,354  
FILING DATE: 26-APR-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Bleker-Brady, Kathleen  
REGISTRATION NUMBER:  
REFERENCE/DOCKET NUMBER: 07891/009001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-428-0200  
TELEFAX: 617-428-7045  
TELEX:  
INFORMATION FOR SEQ ID NO: 8:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 618 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-800-929A-8

Query Match 95.9%; Score 283; DB 3; length 618;  
Best Local Similarity 97.9%; Pred. No. 2.4e-27;  
Matches 47; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PEQLASAGFYVGRNDVYKCFCCDGLRCWESGDDPWVHAHAKWPRCE 48  
Db 287 PEQLASAGFYVGRNDVYKCFCCDGLRCWESGDDPWVHAHAKWPRCE 334

RESULT 12  
US-09-617-053A-8  
Sequence 8, Application US/09617053A  
Patent No. 6300492  
GENERAL INFORMATION:  
APPLICANT: Korneluk, Robert G  
APPLICANT: Mackenzie, Alexander E  
APPLICANT: Liston, Peter  
APPLICANT: Baird, Stephen  
APPLICANT: Tsang, Benjamin K  
APPLICANT: Pratt, Christine  
TITLE OF INVENTION: DETECTION AND MODULATION OF IAFS AND  
TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
FILE REFERENCE: 07891/009003  
CURRENT APPLICATION NUMBER: US/09/617,053A  
CURRENT FILING DATE: 2000-07-14  
PRIOR APPLICATION NUMBER: US 08/800,929  
PRIOR FILING DATE: 1997-02-13  
NUMBER OF SEQ ID NOS: 17  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 8  
LENGTH: 618  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-617-053A-8

Query Match 95.9%; Score 283; DB 4; length 618;  
Best Local Similarity 97.9%; Pred. No. 2.4e-27;  
Matches 47; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 PEQLASAGFYVGRNDVYKCFCCDGLRCWESGDDPWVHAHAKWPRCE 48  
Db 287 PEQLASAGFYVGRNDVYKCFCCDGLRCWESGDDPWVHAHAKWPRCE 334

RESULT 13  
US-09-201-936-8  
Sequence 8, Application US/09201936  
Patent No. 6541457  
GENERAL INFORMATION:  
APPLICANT: Korneluk, Robert G.  
APPLICANT: Mackenzie, Alexander E.  
APPLICANT: Liston, Peter  
APPLICANT: Baird, Stephen  
TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY, PRIMERS,  
TITLE OF INVENTION: PROBES, AND DETECTION METHODS  
FILE REFERENCE: 07891/003003  
CURRENT APPLICATION NUMBER: US/09/201,936  
CURRENT FILING DATE: 1998-12-01  
EARLIER APPLICATION NUMBER: 09/011,356  
EARLIER FILING DATE: 1998-02-04  
EARLIER APPLICATION NUMBER: PCT/IB96/01022  
EARLIER FILING DATE: 1996-08-05  
EARLIER APPLICATION NUMBER: 08/576,956  
EARLIER FILING DATE: 1995-12-22  
EARLIER APPLICATION NUMBER: 08/511,485  
EARLIER FILING DATE: 1995-08-04  
NUMBER OF SEQ ID NOS: 45  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 8  
LENGTH: 618  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-201-936-8

Query Match 95.9%; Score 283; DB 4; length 618;  
Best Local Similarity 97.9%; Pred. No. 2.4e-27;  
Matches 47; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 287 PEQLASAGFYVGRNDVYKCFCCDGLRCWESGDDPWVHAHAKWPRCE 334

RESULT 14  
US-08-569-749-10  
Sequence 10, Application US/08569749  
Patent No. 6187557  
GENERAL INFORMATION:  
APPLICANT: Rothe, Mike  
APPLICANT: Goeddel, David V  
TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESS: FLEHR, HOBBACH, TEST, ALBRITTON & HERBERT  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/569,749  
FILING DATE:  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Brenner, David J.  
REGISTRATION NUMBER: 24,774



Search completed: December 4, 2003, 17:09:32  
Job time : 2.73874 secs

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? REFERENCE/DOCKET NUMBER: A-62464/DTB
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (415) 781-1989
? TELEFAX: (415) 398-3249
? INFORMATION FOR SEQ ID NO: 10:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 48 amino acids
? TYPE: amino acid
? STRANDEDNESS: single
? TOPOLOGY: linear
? MOLECULE TYPE: protein
US-08-569-749-10

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Query Match	95.6%	Score 282;	DB 3;	Length 48;
Best Local Similarity	93.8%;	Pred. No. 2e-28;		
Matches 45; Conservative	2;	Mismatches 1;	Indels 0;	Gaps 0

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Db      1 PEQTASAGFYVYVGNSDVDVKCFCCDGLRCWESGDDPVYVZHAKEFPRCE 48

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Query Match	95.6%;	Score 282;	DB 5;	Length 48;
Best Local Similarity	93.8%;	Pred. No. 2e-28;		
Matches 45;	Conservative 2;	Mismatches 1;	Indels 0;	Gaps 0;

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Dp 1 PEQLASAGFYVGRNSDDVKCFCCDGLRCWESGDDPWWQIAKEWPRCE 48
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GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: December 4, 2003, 12:42:59 ; Search time 165 Seconds  
(without alignments)  
6925.703 Million cell updates/sec

Title: US-08-569-749-1

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Sequence: 1 TCTAGTAGTACTCTGAAA.....AAAAAAAAAAAAAAAAAAAA 2589

Scoring table: IDENTITY\_NUC  
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

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5	2535.8	97.9	3732	3	US-08-800-929A-7 Sequence 7, Appl
6	2535.8	97.9	3732	4	US-09-617-053A-7 Sequence 7, Appl
7	2514.8	97.1	2580	2	US-08-511-485-7 Sequence 7, Appl
8	2514.8	97.1	2580	4	US-09-201-936-7 Sequence 7, Appl
9	1430.2	55.0	1435	5	PCT-US95-05922A-1 Sequence 1, Appl
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11	1343.6	51.9	3151	3	PCT-US96-12860-13 Sequence 13, Appl
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17	1153.6	44.6	2563	4	US-09-016-434-1076 Sequence 1076, Ap
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## ALIGNMENTS

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RESULT 1
US-08-569-749-1
; Sequence 1, Application US/08569749
; Patent No. 6187557
; GENERAL INFORMATION:
; APPLICANT: Rothe, Mike
; APPLICANT: Goedel, David V
; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESS: FLEHR, HOBBACH, TEST, ALBRITTON & HERBERT
; STREET: 4 Embarcadero Center, Suite 3400
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/569,749
; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Brenner, David J.
; REGISTRATION NUMBER: 24,774
; REFERENCE/DOCKET NUMBER: A-62464/DJB
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415)781-1989
; TELEFAX: (415)398-3249
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2589 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; US-08-569-749-1
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; Query Match 100.0%; Score 2589; DB 3; Length 2589;
; Best Local Similarity 100.0%; Pred. No. 0;
; Matches 2589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 2281 GATGTGTAAGGAGTGTGCTGCTGTTGATCATCTTCAAGAGTTACTGG 2340  
QY 2341 ATTGTGTTCTTTAGAGAGCTTGAATACAAATTTATGTTGAGAAAGACTGGAAA 2400  
DB 2341 ATTGTGTTCTTTAGAGAGCTTGAATACAAATTTATGTTGAGAAAGACTGGAAA 2400  
QY 2401 CCAGAGCTGTGAGTGTGATCAGATTAAGTGTGCGCAATGTCTTGGGCTTTTCACTT 2460  
DB 2401 CCAGAGCTGTGAGTGTGATCAGATTAAGTGTGCGCAATGTCTTGGGCTTTTCACTT 2460  
QY 2461 GTGTTTAAATTAAGAGATTTTCTCTTAATTTCTCCCTAGTTGTGAGAAACATCTCA 2520  
DB 2461 GTGTTTAAATTAAGAGATTTTCTCTTAATTTCTCCCTAGTTGTGAGAAACATCTCA 2520  
QY 2521 TAAAGTGTCTTTAAAGAGATTTTCTCTTAATTTCTCCCTAGTTGTGAGAAACATCTCA 2580  
DB 2521 TAAAGTGTCTTTAAAGAGATTTTCTCTTAATTTCTCCCTAGTTGTGAGAAACATCTCA 2580  
QY 2581 AAAAAAAAAA 2589  
DB 2581 AAAAAAAAAA 2589

RESULT 2  
PCT-US96-12860-1  
; Sequence 1, Application PC/TUS9612860  
; GENERAL INFORMATION:  
; APPLICANT: TILARIX, INC.  
; TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
; NUMBER OF SEQUENCES: 14  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: FLEHR, HOBBACH, TEST, ALBRITTON & HERBERT  
; STREET: 4 Embarcadero Center, Suite 3400  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US96/12860  
; FILING DATE: 06 AUG 1996  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: U.S. Serial Nos. 08/512,946 & 08/569,749  
; CLASSIFICATION:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Brezner, David J.  
; REGISTRATION NUMBER: 24,774  
; REFERENCE/DOCKET NUMBER: A-62464/JUB  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415)781-1989  
; TELEFAX: (415)398-3249  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 2589 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; PCT-US96-12860-1

Query Match 100.0%; Score 2589; DB 5; Length 2589;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCTAAGTATGATCTTGGAAATTCAGAGAGATCACTCTACCTGAATATAAATGAGAT 60

DB 1 TCTAAGTATGATCTTGGAAATTCAGAGAGATCACTCTACCTGAATATAAATGAGAT 60  
QY 61 AAATCCAGTAAGAAAGTGTAAATTCATATAGAGTCTATCATGATTTCTTTGG 120  
DB 61 AAATCCAGTAAGAAAGTGTAAATTCATATAGAGTCTATCATGATTTCTTTGG 120  
QY 121 TGGTAAATCTTATGTTCAATGTGAAGAAATTCATATAGATTTTATGCTATCAACAGC 180  
DB 121 TGGTAAATCTTATGTTCAATGTGAAGAAATTCATATAGATTTTATGCTATCAACAGC 180  
QY 181 ACTGTCACTTCTCATGTGCAAAATCTGCTCCAAAGATTTTCCAGGTCCTGTATC 240  
DB 181 ACTGTCACTTCTCATGTGCAAAATCTGCTCCAAAGATTTTCCAGGTCCTGTATC 240  
QY 241 AAAACATTAAAGATTAATGAGAAATGACAGATCTGTGAGATTTGACAAACAGCA 300  
DB 241 AAAACATTAAAGATTAATGAGAAATGACAGATCTGTGAGATTTGACAAACAGCA 300  
QY 301 AACAAAAATGAGATTAATGAGAAATGAGATCTGTGAGATTTGAGATTTCAATTTCACTT 360  
DB 301 AACAAAAATGAGATTAATGAGAAATGAGATCTGTGAGATTTGAGATTTCAATTTCACTT 360  
QY 361 TCCCGCGGGGGTGTCTGTCTGAGAAAGAGTCTTGTCTGTGTGTTTATTAATCTG 420  
DB 361 TCCCGCGGGGGTGTCTGTCTGAGAAAGAGTCTTGTCTGTGTGTTTATTAATCTG 420  
QY 421 GTGTGAATGACAAGGTCAAAATGCTTGTGTGTGAGCTGATGCTGATTAATCTGAAATCAG 480  
DB 421 GTGTGAATGACAAGGTCAAAATGCTTGTGTGTGAGCTGATGCTGATTAATCTGAAATCAG 480  
QY 481 GAGACAGTCTTATCAAAAGATTAATGAGATTAATGAGATTTTATGCTATTAATCAATC 540  
DB 481 GAGACAGTCTTATCAAAAGATTAATGAGATTAATGAGATTTTATGCTATTAATCAATC 540  
QY 541 TGGTTTCAAGTATGCTGAGATTCACCTCTTAAGATTAATGCTTCAATGAGAAACAGTTTG 600  
DB 541 TGGTTTCAAGTATGCTGAGATTCACCTCTTAAGATTAATGCTTCAATGAGAAACAGTTTG 600  
QY 601 CACATTCATTAATCTCCACCTTGGAAACATGATGCTTGTATTAATTAATGAGACTGGAG 840  
DB 601 CACATTCATTAATCTCCACCTTGGAAACATGATGCTTGTATTAATTAATGAGACTGGAG 840  
QY 661 TTTCTCCAAACCTCTTAATTAATGAGAGATTTGAGAGATCTCTCAATGAGAGCTAAC 720  
DB 661 TTTCTCCAAACCTCTTAATTAATGAGAGATTTGAGAGATCTCTCAATGAGAGCTAAC 720  
QY 721 CCTACAGTTATGCAATGATGATGAGAGAGCAGATTTCTTACCTACATATGTGGCAT 780  
DB 721 CCTACAGTTATGCAATGATGATGAGAGAGCAGATTTCTTACCTACATATGTGGCAT 780  
QY 781 TAACTTTTGTGCAATGAGATTTGAGAGAGCTGTTTATTAATTAATGAGACTGGAG 840  
DB 781 TAACTTTTGTGCAATGAGATTTGAGAGAGCTGTTTATTAATTAATGAGACTGGAG 840  
QY 841 ATAGGGTAGCTGTGCTTGTGCTGTGAGAGAGCTCAGTAACTGGAGAACAAAGATGATG 900  
DB 841 ATAGGGTAGCTGTGCTTGTGCTGTGAGAGAGCTCAGTAACTGGAGAACAAAGATGATG 900  
QY 901 CTATGTGAGAACACCGAGAGGATTTTCCCACTGTCTCAATTTTGGAAATTTCTTAGAAA 960  
DB 901 CTATGTGAGAACACCGAGAGGATTTTCCCACTGTCTCAATTTTGGAAATTTCTTAGAAA 960  
QY 961 CTCTGAGGTTAGCAATTTCAAAATCTGAGAGATGAGAGACATGAGAGCTGGAATGAGAAAT 1020  
DB 961 CTCTGAGGTTAGCAATTTCAAAATCTGAGAGATGAGAGACATGAGAGCTGGAATGAGAAAT 1020  
QY 1021 TTATGTATGAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1080  
DB 1021 TTATGTATGAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1080  
QY 1081 ATTATGAGGTCGCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1140

Db 1081 ATTATGCGGTCGCAATGATGATGCATAATGCTTTGTGTGATGCTGCTGAGGTGT 1140  
 Qy 1141 GGGATCTGGAGATGATCCATGGGTAGAACATGCGCAAGTGTTCCTCAAGGTGATGTTCT 1200  
 Db 1141 GGGATCTGGAGATGATCCATGGGTAGAACATGCGCAAGTGTTCCTCAAGGTGATGTTCT 1200  
 Qy 1201 TGATACGAATGAAAGGCGCAAGTGTGTGATGAGATTCGAAGGTAGATTCCTCATCTTC 1260  
 Db 1201 TGATACGAATGAAAGGCGCAAGTGTGTGATGAGATTCGAAGGTAGATTCCTCATCTTC 1260  
 Qy 1261 TTGAACAGCTGTGTCTCACTTCAGATACCACTGGAAGAAATGCTGACCCACCAATTA 1320  
 Db 1261 TTGAACAGCTGTGTCTCACTTCAGATACCACTGGAAGAAATGCTGACCCACCAATTA 1320  
 Qy 1321 TTCAATTTGAGACTGGAGAAAGTCTTCAGAAAGTGTCTCATGATGATGATGATGATGAT 1380  
 Db 1321 TTCAATTTGAGACTGGAGAAAGTCTTCAGAAAGTGTCTCATGATGATGATGATGATGAT 1380  
 Qy 1381 TTAAATCTGCTTGGAAATGCGCTTTAATAGAGACCTGTGAAACAAACAGTTCAAGTA 1440  
 Db 1381 TTAAATCTGCTTGGAAATGCGCTTTAATAGAGACCTGTGAAACAAACAGTTCAAGTA 1440  
 Qy 1441 AAATCTGGAACATGGAAGAACTATTAACAGTTATGATATGATGATGATGATGATGAT 1500  
 Db 1441 AAATCTGGAACATGGAAGAACTATTAACAGTTATGATATGATGATGATGATGATGAT 1500  
 Qy 1501 ATGCTGAAGATGAAAAAG 1560  
 Db 1501 ATGCTGAAGATGAAAAAG 1560  
 Qy 1561 ATGATTTGTCTAATTCGGAAGAACAGAAATGCTCTCTTTCAACATGATGATGATGAT 1620  
 Db 1561 ATGATTTGTCTAATTCGGAAGAACAGAAATGCTCTCTTTCAACATGATGATGATGATGAT 1620  
 Qy 1621 TTCTCTATCTGGAATATCTTTTAAAGGCCAATGATTAATTAACAGAAACATGATTTTA 1680  
 Db 1621 TTCTCTATCTGGAATATCTTTTAAAGGCCAATGATTAATTAACAGAAACATGATTTTA 1680  
 Qy 1681 TTAAACAAAAAACAAGATACCTTTCAACGAGAGACAGATGATGATGATGATGATGAT 1740  
 Db 1681 TTAAACAAAAAACAAGATACCTTTCAACGAGAGACAGATGATGATGATGATGATGAT 1740  
 Qy 1741 AAGGAAATGCTGCGGCCAACATCTTCAAAACCTGTCTAAAGAAATGATCTTACATTTG 1800  
 Db 1741 AAGGAAATGCTGCGGCCAACATCTTCAAAACCTGTCTAAAGAAATGATCTTACATTTG 1800  
 Qy 1801 ATTAAGAACTAATTTGGAATTAAGATTAAGATTAATTCACAGAGATGTTTCAAGTTC 1860  
 Db 1801 ATTAAGAACTAATTTGGAATTAAGATTAAGATTAATTCACAGAGATGTTTCAAGTTC 1860  
 Qy 1861 TGTCACTGGAAGAACATTTGAGAGAGTTCAGAGAGAACAGAACTTTGAAGTGTATG 1920  
 Db 1861 TGTCACTGGAAGAACATTTGAGAGAGTTCAGAGAGAACAGAACTTTGAAGTGTATG 1920  
 Qy 1921 ACAAGAAATGTTCTGTGATTTAATTCCTGTGTCTATCTGTGATGATGATGATGATG 1980  
 Db 1921 ACAAGAAATGTTCTGTGATTTAATTCCTGTGTCTATCTGTGATGATGATGATGATG 1980  
 Qy 1981 CCCCTTCTTAAGAAATGCTTATTTGACAGGGGTATTAACAGAGATGTTTCTGATCAT 2040  
 Db 1981 CCCCTTCTTAAGAAATGCTTATTTGACAGGGGTATTAACAGAGATGTTTCTGATCAT 2040  
 Qy 2041 TTCTCTCTTAAGAAATGCTTATTTAATTTTAACTGCAATTAAGATGTTTAAATTAAT 2100  
 Db 2041 TTCTCTCTTAAGAAATGCTTATTTAATTTTAACTGCAATTAAGATGTTTAAATTAAT 2100  
 Qy 2101 GTTGAACATTTGAAGCATCTTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTA 2160  
 Db 2101 GTTGAACATTTGAAGCATCTTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTA 2160  
 Qy 2161 TTCAATGTTCAAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2220  
 Db 2161 TTCAATGTTCAAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2220

Qy 2221 TTAAATCTTAATCTGTTTATTTTAAAGGAGATTTATGATTTGTGTAAGTATTAATGAT 2280  
 Db 2221 TTAAATCTTAATCTGTTTATTTTAAAGGAGATTTATGATTTGTGTAAGTATTAATGAT 2280  
 Qy 2281 GATGATGATCTTAAGGAGATGATGATGATGATGATGATGATGATGATGATGATGAT 2340  
 Db 2281 GATGATGATCTTAAGGAGATGATGATGATGATGATGATGATGATGATGATGATGAT 2340  
 Qy 2341 ATTGTTGTTCTTTCAGAAAGCTTGAATTAATTAATTAATTAATTAATTAATTAATTA 2400  
 Db 2341 ATTGTTGTTCTTTCAGAAAGCTTGAATTAATTAATTAATTAATTAATTAATTAATTA 2400  
 Qy 2401 CCAGAACTCTGAGATTCATCAGAGATTAAGTGTGCGCAATGCTTTGCTTTGATGAT 2460  
 Db 2401 CCAGAACTCTGAGATTCATCAGAGATTAAGTGTGCGCAATGCTTTGCTTTGATGAT 2460  
 Qy 2461 GTGTTTAAATTAAGATTTTCTCTTATTTCTCCCTGATGTTTGAAGAAACATGCTCA 2520  
 Db 2461 GTGTTTAAATTAAGATTTTCTCTTATTTCTCCCTGATGTTTGAAGAAACATGCTCA 2520  
 Qy 2521 TAAAGTCTTTAAAAAAGATTTTAAAAAAGATTTTAAAAAAGATTTTAAAAAAGATTT 2580  
 Db 2521 TAAAGTCTTTAAAAAAGATTTTAAAAAAGATTTTAAAAAAGATTTTAAAAAAGATTT 2580  
 Qy 2581 AAAAAAAAAA 2589  
 Db 2581 AAAAAAAAAA 2589

RESULT 3  
 US-09-205-204-1  
 ; Sequence 1, Application US/09205204  
 ; Patent No. 5958772  
 ; GENERAL INFORMATION:  
 ; APPLICANT: C. Frank Bennett  
 ; APPLICANT: Elizabeth J. Ackermann  
 ; APPLICANT: Lex M. Cowsett  
 ; TITLE OF INVENTION: ANTISENSE MODULATION OF CELLULAR INHIBITOR OF APOPTOSIS-1 EXPRES  
 ; FILE REFERENCE: RTS-0020  
 ; CURRENT APPLICATION NUMBER: US/09/205,204  
 ; CURRENT FILING DATE: 1998-12-03  
 ; NUMBER OF SEQ ID NOS: 47  
 ; SEQ ID NO 1  
 ; LENGTH: 3532  
 ; TYPE: DNA  
 ; ORGANISM: Homo sapiens  
 ; FEATURE:  
 ; NAME/KEY: CDS  
 ; LOCATION: (1160)..(3016)  
 ; US-09-205-204-1

Query Match 97.9%; Score 2535.8; DB 2; Length 3532;  
 Best Local Similarity 99.7%; Pred. No. 0;  
 Matches 2540; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

Qy 1 TCTAAGTATGATCTTGAATTCAGAGATTAATCTCATCTGATGATTAATTAATGATGAT 60  
 Db 966 TCTAAGTATGATCTTGAATTCAGAGATTAATCTCATCTGATGATTAATTAATGATGAT 1025  
 Qy 61 AAATCCAGTAAGAAAGTGTGATTAATTTCACTAAGAGATCTATCATGATTTCTTTTGG 120  
 Db 1026 AAATCCAGTAAGAAAGTGTGATTAATTTCACTAAGAGATCTATCATGATTTCTTTTGG 1085  
 Qy 121 TGGTAAATTAATCTTAAAGTCAATGGAAGAAATTCATGATGATGATGATGATGATGAT 180  
 Db 1086 TGGTAAATTAATCTTAAAGTCAATGGAAGAAATTCATGATGATGATGATGATGATGAT 1145  
 Qy 181 ACTGTCACTTACATGACCAAACTGCTCCCAAGACTTTTCCAGGTCCCTGATATC 240  
 Db 1146 ACTGTCACTTACATGACCAAACTGCTCCCAAGACTTTTCCAGGTCCCTGATATC 1205  
 Qy 241 AAAACATTAAAGATTAATGGAAGATGACAGATCTTGTCAATTTGGAACAAACAGAAC 300

|||||  
Db 1206 AAAACATTAAGATATATGAGATATGACGATCTTGTCAAGATTTGACAAACGACACA 1265  
Qy 301 AACAAAAAATGAAAGTATGACTTTTCTGTGAACCTACAGATGTCTACATATTCAAATT 360  
Db 1266 AAAAAAATGAAAGTATGACTTTTCTGTGAACCTACAGATGTCTACATATTCAAATT 1325  
Qy 361 TCCCGCGGGGGTGCCTGCTCAGAAAGAGTCTGCTGCTGCTGCTTTTATTATATCTG 420  
Db 1326 TCCCGCGGGGGTGCCTGCTCAGAAAGAGTCTGCTGCTGCTGCTTTTATTATATCTG 1385  
Qy 421 GTGTGATGACAAAGTCAAAATGCTTCTGTGTGCGCTGATGTGATGATTAATCTGAACTAG 480  
Db 1386 GTGTGATGACAAAGTCAAAATGCTTCTGTGTGCGCTGATGTGATGATTAATCTGAACTAG 1445  
Qy 481 GAGACAGTCTTATTCAAAGCATTAACAGCTATATCTGATGCTGATGCTTTATTCAGATTC 540  
Db 1446 GAGACAGTCTTATTCAAAGCATTAACAGCTATATCTGATGCTGATGCTTTATTCAGATTC 1505  
Qy 541 TGGTTTCACTAGTCTGAGGATCCACCTCTTAAGAAATAGCTCCATGAGAAACAGTTTTCG 600  
Db 1506 TGGTTTCACTAGTCTGAGGATCCACCTCTTAAGAAATAGCTCCATGAGAAACAGTTTTCG 1565  
Qy 601 CACATTCATTAATCTCCACCTTGGAACATAGTAGCTTGTTCAGTGGTTCTTACTCCAGCC 660  
Db 1566 CACATTCATTAATCTCCACCTTGGAACATAGTAGCTTGTTCAGTGGTTCTTACTCCAGCC 1625  
Qy 661 TTTTTCCAAAACCTCTTAATTTAGAGCAGATTGAAGACATCTCTTCAATGAGAGCTTAAC 720  
Db 1626 TTTTTCCAAAACCTCTTAATTTAGAGCAGATTGAAGACATCTCTTCAATGAGAGCTTAAC 1685  
Qy 721 CCTACAGTTATGAGATGAGATCTGAAGAAACAGATTTCTTACTTCAATATGTGACAT 780  
Db 1686 CCTACAGTTATGAGATGAGATCTGAAGAAACAGATTTCTTACTTCAATATGTGACAT 1745  
Qy 781 TAACTTTTGTGACCATCAGATTTGGCAAGAGCTGGTTTATATPATATAGACCTGGAG 840  
Db 1746 TAACTTTTGTGACCATCAGATTTGGCAAGAGCTGGTTTATATPATATAGACCTGGAG 1805  
Qy 841 ATAGGGTACCTGCTTGTGCTGTGGAGAGCTCAGTATCTGGGAACCAAGAGATGATG 900  
Db 1806 ATAGGGTACCTGCTTGTGCTGTGGAGAGCTCAGTATCTGGGAACCAAGAGATGATG 1865  
Qy 901 CTATGTCAGAAACCGGAGGACATTTCCCACTGTGCATTTTGGAAATTTCTTGAATA 960  
Db 1866 CTATGTCAGAAACCGGAGGACATTTCCCACTGTGCATTTTGGAAATTTCTTGAATA 1925  
Qy 961 CTCTGAGTTTGAATTTCAAACTGAGCATGAGACACATGCAAGCTCGAATGAGAACAT 1020  
Db 1926 CTCTGAGTTTGAATTTCAAACTGAGCATGAGACACATGCAAGCTCGAATGAGAACAT 1985  
Qy 1021 TTATGTACTGACCATCTAGTGTTCAGTTCAAGCTGAGACGTTGCAAGTGTGTTTTT 1080  
Db 1986 TTATGTACTGACCATCTAGTGTTCAGTTCAAGCTGAGACGTTGCAAGTGTGTTTTT 2045  
Qy 1081 ATTATGTGGGTGCGCATGATGATGTCAAAATGCTTTTGTGTGATGTGTGCTGAGGTGT 1140  
Db 2046 ATTATGTGGGTGCGCATGATGATGTCAAAATGCTTTTGTGTGATGTGTGCTGAGGTGT 2105  
Qy 1141 GGGAAATCTGAGATGATTCATGGGTAGAACATGCCAAGTGGTTTCCAAAGTGTGAGTTCT 1200  
Db 2106 GGGAAATCTGAGATGATTCATGGGTAGAACATGCCAAGTGGTTTCCAAAGTGTGAGTTCT 2165  
Qy 1201 TGAATGCAATGAAAGGCCAAGAGTTTGTGATGAGATTCAAGGTATATATCTCATCTTC 1260  
Db 2166 TGAATGCAATGAAAGGCCAAGAGTTTGTGATGAGATTCAAGGTATATATCTCATCTTC 2225  
Qy 1261 TTGAACAAGTGTGTCTCACTTCAAGATCACTGAGAGAAAGAAATGTGACCAACCAATTA 1320  
Db 2226 TTGAACAAGTGTGTCTCACTTCAAGATCACTGAGAGAAAGAAATGTGACCAACCAATTA 2285  
Qy 1321 TTCAATTTGCACTGAGAGAAAGTTCTTCAAGAGATGCTGTCATGATGAATACACCTGTGG 1380  
|||||

Db 2286 TTCAATTTGCACTGAGAGAAAGTTCTTCAAGAGATGCTGTCATGATGAATACACCTGTGG 2345  
Qy 1381 TTAAATCTGCTTGAATAATGCGCTTTAATAGACACCTGTGAAACAAACAGTTCAAGTA 1440  
Db 2346 TTAAATCTGCTTGAATAATGCGCTTTAATAGACACCTGTGAAACAAACAGTTCAAGTA 2405  
Qy 1441 AAATCTGCAACTGAGAGAACTATTAACAGTTAATGATATGTGTGACGACCTTTAA 1500  
Db 2406 AAATCTGCAACTGAGAGAACTATTAACAGTTAATGATATGTGTGACGACCTTTAA 2465  
Qy 1501 ATGCTGAAGTGAAGAAAG 1560  
Db 2466 ATGCTGAAGTGAAGAAAG 2525  
Qy 1561 ATGATTTGTCAATTAATTCGAAAGACAGATGAGCTCTCTTCAACAAATGACATGTGTGC 1620  
Db 2526 ATGATTTGTCAATTAATTCGAAAGACAGATGAGCTCTCTTCAACAAATGACATGTGTGC 2585  
Qy 1621 TTCTTATCCTGAGTAAATCTTTTAAAGGCCAATGTAAATTAATAACAGAAACATGATTA 1680  
Db 2586 TTCTTATCCTGAGTAAATCTTTTAAAGGCCAATGTAAATTAATAACAGAAACATGATTA 2645  
Qy 1681 TTAAACAAAAACAGATACCTTTACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1740  
Db 2646 TTAAACAAAAACAGATACCTTTACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2705  
Qy 1741 AAGAAATGCTGCGGCAACATCTTCAAAAACTGTCTAAAGAAATGACTCTACATGT 1800  
Db 2706 AAGAAATGCTGCGGCAACATCTTCAAAAACTGTCTAAAGAAATGACTCTACATGT 2765  
Qy 1801 ATTAAGACTTATTTGTGATTAAGAAATGAGATATTTCCAAACAGAAATGTTTCAGTTC 1860  
Db 2766 ATTAAGACTTATTTGTGATTAAGAAATGAGATATTTCCAAACAGAAATGTTTCAGTTC 2825  
Qy 1861 TGTCACTGGAAGAACATTTGAGAGAGTTGCAAGAAAGAGAGAGAGAGAGAGAGAGAG 1920  
Db 2826 TGTCACTGGAAGAACATTTGAGAGAGTTGCAAGAAAGAGAGAGAGAGAGAGAGAGAG 2885  
Qy 1921 ACAAGAAAGTTTCTGTGATTAATTTCTGTGTCTATCTGTAGATATGCAAGAAATGTG 1980  
Db 2886 ACAAGAAAGTTTCTGTGATTAATTTCTGTGTGTCTATCTGTAGATATGCAAGAAATGTG 2945  
Qy 1981 CCCCTTCTTAAGAAATGCCCCATTTTGCAGGGGTATTAATCAAGGTACTGTTCCGACAT 2040  
Db 2946 CCCCTTCTTAAGAAATGCCCCATTTTGCAGGGGTATTAATCAAGGTACTGTTCCGACAT 3005  
Qy 2041 TTCTCTCTTAAGAAAGAAATGCTAATTTTAACTGCAATTAAGAGCTTTAAATATAT 2100  
Db 3006 TTCTCTCTTAAGAAAGAAATGCTAATTTTAACTGCAATTAAGAGCTTTAAATATAT 3065  
Qy 2101 GTTGAACACTGGAAGCACTTAAGTAAAGAGAAATTAAGAGTTTTCATTAAGTAACA 2160  
Db 3066 GTTGAACACTGGAAGCACTTAAGTAAAGAGAAATTAAGAGTTTTCATTAAGTAACA 3125  
Qy 2161 TTCAATGTTCTAGTCTGCTTGTGACTAATTAATCTGTTTCTGAAGAGATGTATCATATA 2220  
Db 3126 TTCAATGTTCTAGTCTGCTTGTGACTAATTAATCTGTTTCTGAAGAGATGTATCATATA 3185  
Qy 2221 TTTAATCTTAATCTGTTTATTAACAAGGAGAAATTAAGTTTGGGAACATAATAGAT 2280  
Db 3186 TTTAATCTTAATCTGTTTATTAACAAGGAGAAATTAAGTTTGGGAACATAATAGAT 3245  
Qy 2281 GTATGTATACCTTAAGAGAGATGTCACTGCTTGTATGATCATTTCAAGAGTAACTGG 2340  
Db 3246 GTATGTATACCTTAAGAGAGATGTCACTGCTTGTATGATCATTTCAAGAGTAACTGG 3305  
Qy 2341 ATTGTGTGTCTTCAAGAAAGCTTTGAATCTTAATTAATGTGTGAAGAAAGACGAGAA 2400  
Db 3306 ATTGTGTGTCTTCAAGAAAGCTTTGAATCTTAATTAATGTGTGAAGAAAGACGAGAA 3365  
Qy 2401 CCAGGAACCTGAGAGTTTCAAGATTAAGTATGGGAGAGTTGCTTTGGGCTTTCACTT 2460  
Db 3366 CCAGGAACCTGAGAGTTTCAAGATTAAGTATGGGAGAGTTGCTTTGGGCTTTCACTT 3425  
|||||





Db	2686	ATGCTGAAGATGAAAAAGAGAAAGGAGGAAGAAAAACAAGCTGAAGAAATGGCATACAG	2745
Qy	1561	ATGATTTTGATCTTAATTCGGAAAGAACGAATGGCTCTCTTCAACAATTGACATGCTGC	1620
Db	2746	ATGATTTTGCTATTAATTCGGAGAAACGAATGGCTCTCTTCAACAATTGACATGCTGC	2805
Qy	1621	TTCTCTATCTGGATTAATCTTTTAAAGGCCATGTAAATTAAATMAACAGAACATGATATTA	1680
Db	2806	TTCTCTATCTGGATTAATCTTTTAAAGGCCATGTAAATTAAATMAACAGAACATGATATTA	2865
Qy	1681	TTTAAACAAAAACACAGATACCTTTACAAGGAGAGAACCTGATGATPCCATTTTGGTTA	1740
Db	2866	TTTAAACAAAAACACAGATACCTTTACAAGGAGAGAACCTGATGATPCCATTTTGGTTA	2925
Qy	1741	AAGAAATGCTGCGGCCAACATCTTCAAAAACTGCTPAAAGAAATTGACCTCACTATGT	1800
Db	2926	AAGAAATGCTGCGGCCAACATCTTCAAAAACTGCTPAAAGAAATTGACCTCACTATGT	2985
Qy	1801	ATTAAGAACTTATTTGTGGATTAAGATATGAAGTATATTCACACAAAGATGTTCAAGTTC	1860
Db	2986	ATTAAGAACTTATTTGTGGATTAAGATATGAAGTATATTCACACAAAGATGTTCAAGTTC	3045
Qy	1861	TGTGACATGGAAGAACATTTGGAGGGGTTCGAAAGAAACGAACTTTGTAAGGTGTATGG	1920
Db	3046	TGTGACATGGAAGAACATTTGGAGGGGTTCGAAAGAAACGAACTTTGTAAGGTGTATGG	3105
Qy	1921	ACAAAGAAATTTCTGTTGTATTTTATCTCTGTGTGATCTGAGTATGCCAGAAATGTG	1980
Db	3106	ACAAAGAAATTTCTGTTGTATTTTATCTCTGTGTGATCTGAGTATGCCAGAAATGTG	3165
Qy	1981	CCCCCTCTCTPAAAGAAATGCCCCCTTTTGGCAGGGGTATPACAAAGGTACTGTTGTCAT	2040
Db	3166	CCCCCTCTCTPAAAGAAATGCCCCCTTTTGGCAGGGGTATPACAAAGGTACTGTTGTCAT	3225
Qy	2041	TTCTCTCTTAAAGAAAAATAGTCTATATTTTAAACCTGCAAAAAAGCTCTTAAAAATTT	2100
Db	3226	TTCTCTCTTAAAGAAAAATAGTCTATATTTTAAACCTGCAAAAAAGCTCTTAAAAATTT	3285
Qy	2101	GTTGAACACTTGAAGCCCATCTAAAGTAAAAAGGAAATTAGATTTTCAATTATGTATACA	2160
Db	3286	GTTGAACACTTGAAGCCCATCTAAAGTAAAAAGGAAATTAGATTTTCAATTATGTATACA	3345
Qy	2161	TTCAATGTTTCAAGTCTGCTTTGGTACTAATAATCTTGTTTTCGAAAGATGGTATCATATA	2220
Db	3346	TTCAATGTTTCAAGTCTGCTTTGGTACTAATAATCTTGTTTTCGAAAGATGGTATCATATA	3405
Qy	2221	TTTAATCTTAATCTGTTTATTTTACAAGGGAAGATTTATGTTGGTGAACATAATTAAGTAT	2280
Db	3406	TTTAATCTTAATCTGTTTATTTTACAAGGGAAGATTTATGTTGGTGAACATAATTAAGTAT	3465
Qy	2281	GTATGTGTAACCTAAGGGAGTAGTGTCACTGCTGTGTATGACATCTTTCAGAGATTACTGG	2340
Db	3466	GTATGTGTAACCTAAGGGAGTAGTGTCACTGCTGTGTATGACATCTTTCAGAGATTACTGG	3525
Qy	2341	ATTGTGTTCTTTCAGAAAGCTTTGATATCTAATATTAAGTGTGAGAAAGAACCTGAGAA	2400
Db	3526	ATTGTGTTCTTTCAGAAAGCTTTGATATCTAATATTAAGTGTGAGAAAGAACCTGAGAA	3585
Qy	2401	CCAGGAATCTCGAGATTCATACAGTATATGATGCCGAATGTCTTTGGTGTCTTTCACCT	2460
Db	3586	CCAGGAATCTCGAGATTCATACAGTATATGATGCCGAATGTCTTTGGTGTCTTTCACCT	3645
Qy	2461	GTGTTTTTAAATAAGATTTTTCCTTATATTTCTCCCCCTAGTTGTGTGAGAAACATCTCAA	2520
Db	3646	GTGTTTTTAAATAAGATTTTTCCTTATATTTCTCCCCCTAGTTGTGTGAGAAACATCTCAA	3705
Qy	2521	TAAAGTCTTTAAAAAATTTTTTTTTT 2547	
Db	3706	TAAAGTCTTTAAAAAATTTTTTTTTT 3732	

## RESULT 5

```

US-08-800-929A-7
; Sequence 7, Application US/08800929A
; Patent No. 6133437
GENERAL INFORMATION:
APPLICANT: Korneiuk, Robert G
APPLICANT: Mackenzie, Alexander B
APPLICANT: Liston, Peter
APPLICANT: Baird, Stephen
APPLICANT: Tsang, Benjamin K
APPLICANT: Pratt, Christine
TITLE OF INVENTION: DETECTION AND MODULATION OF
TITLE OF INVENTION: IAPS AND NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Clark & Elbing LLP
STREET: 176 Federal Street
CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/800,929A
FILING DATE: 13-FEB-1997
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/030,590
FILING DATE: 14-NOV-1996
APPLICATION NUMBER: 60/017,354
FILING DATE: 26-APR-1996
ATTORNEY/AGENT INFORMATION:
NAME: Bieker-Brady, Kristina
REGISTRATION NUMBER:
REFERENCE/DOCKET NUMBER: 07891/009001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 617-428-0200
TELEFAX: 617-428-7045
TELEX:
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 3732 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-800-929A-7

Query Match          97.9%; Score 2535.8; DB 3; Length 3732;
Best Local Similarity 99.7%; Pred. No. 0;
Matches 2540; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY      1 TCTTAAGTATATCTTGGGAATTCAGAGAGATACATCCCTACCGAATAATACTGAGAT 60
DB      1186 TCTAAGTATATCTTGGTAATTCAGAGAGATCACTCATCTGAATATATACTGAGAT 1245

QY      61 AATCCAGTAAGAAGAGTGTAGTAATTTCTACATTAAGAGTCTATCATGATTTCTTTGG 120
DB      1246 AATCCAGTAAGAAGAGTGTAGTAATTTCTACATTAAGAGTCTATCATGATTTCTTTGG 1305

QY      121 TGGTAAAAATCTTAGTTTCATGTGAGAAATTTTCATGTGAATGTTTAACTATCAAAACAG 180
DB      1306 TGGTAAAAATCTTAGTTTCATGTGAGAAATTTTCATGTGAATGTTTAACTATCAAAACAGT 1365

QY      181 ACTGCACCTACTCATGACCAAAACTGCTCCCAAGACCTTTTCCAGAGTCCCTCGTATC 240
DB      1366 ACTGCACCTACTCATGACCAAAACTGCTCCCAAGACCTTTTCCAGAGTCCCTCGTATC 1425

QY      241 AAAACATTAAAGATATATGAGAAATAGCAGATCTTGTCAATTTGACAAACAGACACA 300

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Qy	Db	Qy	Db
2461	GTGTTTAAATAAGATTTTTCCTAATTCGCCCTAGTTGTAGAAACATCTCA	2547	TTAAGGCTTTAAAGAAAAA
3646	GTGTTTAAATAAGATTTTTCCTAATTCGCCCTAGTTGTAGAAACATCTCA	3706	TTAAGGCTTTAAAGAAAAA
			3742

```

RESULT 6
US-09-617-053A-7
; Sequence 7, Application US/09617053A
; Patent No. 6300492
;
; GENERAL INFORMATION:
; APPLICANT: Korneluk, Robert G
; APPLICANT: Mackenzie, Alexander E
; APPLICANT: Liston, Peter
; APPLICANT: Baird, Stephen
; APPLICANT: Tang, Benjamin K
; APPLICANT: Pratt, Christine
; TITLE OF INVENTION: DETECTION AND MODULATION OF IARS AND
; TITLE OF INVENTION: NARP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE
; TITLE OF INVENTION: DISEASE
; FILE REFERENCE: 07891/009003
; CURRENT APPLICATION NUMBER: US/09/617,053A
; CURRENT FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: US 08/800,929
; PRIOR FILING DATE: 1997-02-13
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
;
; SEQ ID NO 7
; LENGTH: 3732
;
; TYPE: DNA
;
; ORGANISM: Homo sapiens
;
; US-09-617-053A-7

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Query Match	97.9%;	Score 2535.8;	DB 4;	Length 3732;
Best Local Similarity	99.7%;	Pred. No. 0;		
Matches 2540; Conservative	0;	Mismatches 7;	Indels 0;	Gaps 0

QY	1	CTTAAGTAGATCTTGGAAATTCAGAGATACCTCATCTCTAACCCTGAATATATAACTGAGAT	60
QY	1186	TCCTAAGTAGATCTTGGTAATTCAGAGAGATACCTCATCTCTAACCCTGAATATATAACTGAGAT	1245
QY	61	AAATCCAGTAAAGAAAGTGTAGTAAATTCATCAATAGAGCTATCATGTATTTCTTTGG	120
QY	1246	AAATCCAGTAAAGAAAGTGTAGTAAATTCATCAATAGAGCTATCATGTATTTCTTTTG	1305
Db	121	TGCTAAATATCTTAGTTCATGTGAGAAATTCATGTGAATGTTTATAGTATCAAAACGC	180
QY	1306	TGCTAAATATCTTAGTTCATGTGAGAAATTCATGTGAATGTTTATAGTATCAAAACAGT	1365
QY	181	ACTGTCACTACTCATGCACAAAATCTGCTCCGAAAGCTTTTCCAGGTCCCTCGATC	240
QY	1366	ACTGTCACTACTCATGCACAAAATCTGCTCCGAAAGCTTTTCCAGGTCCCTCGATC	1425
Db	241	AAAACATTAAAGATATATGGAAGATAGCAGATCTTGTCAATTTGACAAACAGCACAA	300
QY	1426	AAAACATTAAAGATATATGGAAGATAGCAGATCTTGTCAATTTGACAAACAGCACAA	1485
QY	301	AAACAAAAAAGAGTATGACTTTTCCCTGTGAACCTTCACGAATGTCTACATATTCACATT	360
Db	1486	AAACAAAAAAGAGTATGACTTTTCCCTGTGAACCTTCACGAATGTCTACATATTCACATT	1545
QY	361	TCCCGCGCGGAGTGCCTGTCTCAGAAAAGAGTCTTGCTCGTGCCTGTTTATATATACG	420
QY	1546	TCCCGCGCGGAGTGCCTGTCTCAGAAAAGAGTCTTGCTCGTGCCTGTTTATATATACG	1605
Db	421	GTGTGAATGACAAGGTCAATATGCTTCTGTGTGGCCGTATCTTGGATTAACCTGGAACCTAG	480
QY	1606	GTGTGAATGACAAGGTCAATATGCTTCTGTGTGGCCGTATCTTGGATTAACCTGGAACCTAG	1665

QY	481	GAGCAGCGCTAATTCAAAAGCATAAACAGCTATATCCAGCTGAGCTTATATTCGAATC	540
Db	1666	GAGACAGCTCATTCCAAAGACATAAACAGCTATATCCAGCTGAGCTTATATTCGAATC	1722
QY	541	TGTTTTCACTAGTCTGGGATCAACCTCTAAGAAATAGCTCTCAATGAGAAACAGTTTTG	600
Db	1726	TGTTTTCACTAGTCTGGGATCCACCTCTAAGAAATAGCTCTCAATGAGAAACAGTTTTG	1785
QY	601	CACATTCATATATCTCCACCTTGGAACATATGACTGTTTCAAGGCTCTTATCTCCACCC	660
Db	1786	CACATTCATATATCTCCACCTTGGAACATATGACTGTTTCAAGGCTCTTATCTCCACCC	1845
QY	661	TTTTCTCCAAACCTCTTAAATTTCTAGACAGTTGGAAGACATCTCTTCATCGAGACTAAC	720
Db	1846	TTTTCTCCAAACCTCTTAAATTTCTAGACAGTTGGAAGACATCTCTTCATCGAGACTAAC	1905
QY	721	CCCTACAGTTATGCAATAGTACTGAAAGCCAGATTTCTTACTACATATGTGGCCAT	780
Db	1906	CCCTACAGTTATGCAATAGTACTGAAAGCCAGATTTCTTACTACATATGTGGCCAT	1965
QY	781	TAACTTTTGTGCACCATCGAATTTGGCAAGCTGGTTTTTATATATAGACCTGGAC	840
Db	1966	TAACTTTTGTGCACCATCGAATTTGGCAAGCTGGTTTTTATATATAGACCTGGAC	2025
QY	841	ATAGGGTAGCTGCTGTTGCTGTGGGAAAGCTCAGTAACTGGGAACCAAGATGATG	900
Db	2026	ATAGGGTAGCTGCTGTTGCTGTGGGAAAGCTCAGTAACTGGGAACCAAGATGATG	2085
QY	901	CTATGTCAGAAACACCGGAGCATTTTCCCACTGCTCCATTTTGGAAATTTCTTAGAA	960
Db	2086	CTATGTCAGAAACACCGGAGCATTTTCCCACTGCTCCATTTTGGAAATTTCTTAGAA	2145
QY	961	CTCTGAGGTTTAGCATTTCAATCTGAGCATGCAACATGCACTCGATGATGAAACAT	1020
Db	2146	CTCTGAGGTTTAGCATTTCAATCTGAGCATGCAACATGCACTCGATGATGAAACAT	2205
QY	1021	TTATATGACTGGCCACTTAGTGTTCAGTTCAAGCTGAGCAGCTTGCAATGCTGTTTTT	1080
Db	2206	TTATATGACTGGCCACTTAGTGTTCAGTTCAAGCTGAGCAGCTTGCAATGCTGTTTTT	2265
QY	1081	ATTATATGAGGTCGCAATGATGATCAAAATGCTTTTGTGTGATGGTGGCTGAGGTTT	1140
Db	2266	ATTATATGAGGTCGCAATGATGATCAAAATGCTTTTGTGTGATGGTGGCTGAGGTTT	2325
QY	1141	GCGAATCTGAGATGATCCATGGGTAGAACATGCGCAATGCTGTTTCAAGGTGTGATCT	1200
Db	2326	GCGAATCTGAGATGATCCATGGGTAGAACATGCGCAATGCTGTTTCAAGGTGTGATCT	2385
QY	1201	TGATACGAATGAAGGCGCAAGATTTGTGTATGATATTCAGGATGATATCTTCATCTTC	1260
Db	2386	TGATACGAATGAAGGCGCAAGATTTGTGTATGATATTCAGGATGATATCTTCATCTTC	2445
QY	1261	TTGAAACAGCTGTGTCAACTTCAGATACCACTGGAGAAAGAAATGCTGACCCACAATTA	1320
Db	2446	TTGAAACAGCTGTGTCAACTTCAGATACCACTGGAGAAAGAAATGCTGACCCACAATTA	2505
QY	1321	TTCAATTTTGGACCTGGAAGAAAGTTCTTCAGAAATGCTGTCAATGATGAATACACTGTGG	1380
Db	2506	TTCAATTTTGGACCTGGAAGAAAGTTCTTCAGAAATGCTGTCAATGATGAATACACTGTGG	2565
QY	1381	TTTAAATCTGCTTGGAAGATGGGCTTTAAATGAGACCTGGTGAACCAACAGTTCAAAGTA	1440
Db	2566	TTTAAATCTGCTTGGAAGATGGGCTTTAAATGAGACCTGGTGAACCAACAGTTCAAAGTA	2625
QY	1441	AAATCTGACACTGAGAGAACTATAAAACAGTTAATGATATGTGTCAAGCACTTCTAA	1500
Db	2626	AAATCTGACACTGAGAGAACTATAAAACAGTTAATGATATGTGTCAAGCACTTCTTA	2685
QY	1501	ATGCTGAAAGTGAAGAAAGAGAGAGAGAAAGAAACAAAGCTGAAGAAATGGCATCAG	1560
Db	2686	ATGCTGAAAGTGAAGAAAGAGAGAGAGAAAGAAACAAAGCTGAAGAAATGGCATCAG	2745
QY	1561	ATGATTTGTGATTAATTCGAGAAACAGATGGCTCTCTTTCAACAATTGACATGTGTGC	1620

Db 2746 ATGATTTGTCATTAATTCGAGAGAACAGATGCTCTCTTCAACATATGACATGCTGC 2805  
Qy 1621 TTCTTATCCCTGAGTATCTTTTAAAGCCCAATGTAATTAATTAACGGAACATGATATTA 1680  
Db 2806 TTCTTATCCCTGAGTATCTTTTAAAGCCCAATGTAATTAATTAACGGAACATGATATTA 2865  
Qy 1681 TTAAACAAAACACAGATCTTTTACACGAGAGATGATGATATTAATTAATTAATTAATTA 1740  
Db 2866 TTAAACAAAACACAGATCTTTTACACGAGAGATGATGATATTAATTAATTAATTAATTA 2925  
Qy 1741 AAGGAAATGCTGCGGCCACATCTTCAAAACTGCTTAAAGAAATTAATTAATTAATTAATTA 1800  
Db 2926 AAGGAAATGCTGCGGCCACATCTTCAAAACTGCTTAAAGAAATTAATTAATTAATTAATTA 2985  
Qy 1801 ATTAAGAACTTATTTGAGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1860  
Db 2986 ATTAAGAACTTATTTGAGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 3045  
Qy 1861 TGTCACTGAGAGAACATTTGAGAGATTTGAGAGAGAACATTTGAGAGATTTGAGAGATTTG 1920  
Db 3046 TGTCACTGAGAGAACATTTGAGAGATTTGAGAGAGAACATTTGAGAGATTTGAGAGATTTG 3105  
Qy 1921 ACAAGAGATTTGCTGTAATTAATTTCTTGTGCTCATCTGTAATTAATTAATTAATTAATTA 1980  
Db 3106 ACAAGAGATTTGCTGTAATTAATTTCTTGTGCTCATCTGTAATTAATTAATTAATTAATTA 3165  
Qy 1981 CCCCTCTCAAGAAATGCGCTATTTGAGAGAGATTTGAGAGAGATTTGAGAGATTTGAGAGAT 2040  
Db 3166 CCCCTCTCAAGAAATGCGCTATTTGAGAGAGATTTGAGAGAGATTTGAGAGATTTGAGAGAT 3225  
Qy 2041 TTCTCTCTTAAAGAAATTAATTAATTTTAACTGCAATTAATTAATTAATTAATTAATTAATTA 2100  
Db 3226 TTCTCTCTTAAAGAAATTAATTAATTTTAACTGCAATTAATTAATTAATTAATTAATTAATTA 3285  
Qy 2101 GTTGAACACTTGAAGCCATCTTAAGTAAAGAAATTAATTAATTAATTAATTAATTAATTAATTA 2160  
Db 3286 GTTGAACACTTGAAGCCATCTTAAGTAAAGAAATTAATTAATTAATTAATTAATTAATTAATTA 3345  
Qy 2161 TTCAATGTTAGTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTG 2220  
Db 3346 TTCAATGTTAGTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTGCTTGTG 3405  
Qy 2221 TTAAATCTTAATCTGTTATTTATTAACAAGAGATTTTAATTTGTTGTTGTTGTTGTTGTTGTT 2280  
Db 3406 TTAAATCTTAATCTGTTATTTATTAACAAGAGATTTTAATTTGTTGTTGTTGTTGTTGTTGTT 3465  
Qy 2281 GTATGTGTAAGTAAAGAGATGTTGCTGCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 2340  
Db 3466 GTATGTGTAAGTAAAGAGATGTTGCTGCTGTTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 3525  
Qy 2341 ATTG 2400  
Db 3526 ATTG 3585  
Qy 2401 CCAAGAACTCTGAGATTCATCAGATTAATGTTGCTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 2460  
Db 3586 CCAAGAACTCTGAGATTCATCAGATTAATGTTGCTGTTGTTGTTGTTGTTGTTGTTGTTGTTG 3645  
Qy 2461 GTGTTTAAATTAAGATTTTCTTCTTATTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2520  
Db 3646 GTGTTTAAATTAAGATTTTCTTCTTATTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3705  
Qy 2521 TAAAGTCTTAAATTAAGATTTTCTTCTTATTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2580  
Db 3706 TAAAGTCTTAAATTAAGATTTTCTTCTTATTTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 3765

RESULT 7  
US-08-511-485-7  
Sequence 7, Application US/08511485  
Patent No. 5919912  
GENERAL INFORMATION:

APPLICANT: Korneluk, Robert G.  
APPLICANT: Mackenzie, Alexander E.  
APPLICANT: Baird, Stephen  
TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY, PRIMERS,  
TITLE OF INVENTION: PROBES, AND DETECTION METHODS  
NUMBER OF SEQUENCES: 38  
CORRESPONDENCE ADDRESS:  
ADDRESS: Fish & Richardson P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/511,485  
FILING DATE: 04-AUG-1995  
CLASSIFICATION: 514  
ATTORNEY/AGENT INFORMATION:  
NAME: Clark, Paul T.  
REGISTRATION NUMBER: 30,162  
REFERENCE/DOCKET NUMBER: 07540/002001  
TELEPHONE: 617/542-5070  
TELEFAX: 617/542-8906  
TELEX: 200154  
INFORMATION FOR SEQ. ID NO. 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2580 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: both  
TOPOLOGY: both  
MOLECULE TYPE: DNA (genomic)  
US-08-511-485-7  
Query Match 97.1%; Score 2514.8; DB 2; Length 2580;  
Best Local Similarity 99.4%; Pred. No. 0;  
Matches 2522; Conservative 0; Mismatches 14; Indels 0; Gaps 0;  
Qy 1 TCTAAGTATGATTTTGAATTTAGAGAGATCTACTCTCACTGAAATTAATTAATTAATTAATTA 60  
Db 44 TCTAAGTATGATTTTGAATTTAGAGAGATCTACTCTCACTGAAATTAATTAATTAATTAATTA 103  
Qy 61 AATTCAGTAAAGATGATTAATTTCTACATAAGATCTATCATTTCTTTTGG 120  
Db 104 AATTCAGTAAAGATGATTAATTTCTACATAAGATCTATCATTTCTTTTGG 163  
Qy 121 TGGTAAATCTTATGTTCAATGTAAGAAATTTGATGTAATTTAGCTATCAAAACAGC 180  
Db 164 TGGTAAATCTTATGTTCAATGTAAGAAATTTGATGTAATTTAGCTATCAAAACAGC 223  
Qy 181 ACTGTCACTACTCATGACAAACATGCTCCCAAGATTTTCCAGAGCTCCGATC 240  
Db 224 ACTGTCACTACTCATGACAAACATGCTCCCAAGATTTTCCAGAGCTCCGATC 283  
Qy 241 AAAACATTAAGATTAATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAG 300  
Db 284 AAAACATTAAGATTAATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAG 343  
Qy 301 AACAAATTAAGATTAATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAG 360  
Db 344 AACAAATTAAGATTAATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAGATTAAG 403  
Qy 361 TCCCGCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 420  
Db 404 TCCCGCGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 463  
Qy 421 GTGTAATGACAGTCAAAATGCTTCTGTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 480

Db 464 GTGTGATGACAAAGTCAATGCTTCTGTGTGGCTGAGTGTGATTAACGTGAAAATG 523  
Qy 481 GAGACAGTCTTAATTCAAAAGCATAAACAGCTATATCTTACGTGTAGCTTTATTCAGATTC 540  
Db 524 GAGACAGTCTTAATTCAAAAGCATAAACAGCTATATCTTACGTGTAGCTTTATTCAGATTC 583  
Qy 541 TGGTTTCACTAGTGTCTGGGATCCACTCTTAAGAAATGCTCTCCATGAGAAAACAGTTTGG 600  
Db 584 TGGTTTCACTAGTGTCTGGGATCCACTCTTAAGAAATGCTCTCCATGAGAAAACAGTTTGG 643  
Qy 601 CACATTCATTATCTCCACCTTGAAACATAGTAGCTGTTCAGTGGTTCTTACCTCAGGCC 660  
Db 644 CACATTCATTATCTCCACCTTGAAACATAGTAGCTGTTCAGTGGTTCTTACCTCAGGCC 703  
Qy 661 TTTTCCAAACCTCTTAAATCTAGAGCAGTTGAGACATCTCTTCATGAGAGACTAAC 720  
Db 704 TTCCTCCAAACCTCTTAAATCTAGAGCAGTTGAGACATCTCTTCATGAGAGACTAAC 763  
Qy 721 CCTACAGTTATGCAATGAGTACTGAAAGAACCAAGTTTCTTACCTTACATATGTGGCCAT 780  
Db 764 CCTACAGTTATGCAATGAGTACTGAAAGAACCAAGTTTCTTACCTTACATATGTGGCCAT 823  
Qy 781 TAACTTTTGTGACCATGAGAAATGGCAAGCTGGTTTATTAATATAGAACCTTGAG 840  
Db 824 TAACTTTTGTGACCATGAGAAATGGCAAGCTGGTTTATTAATATAGAACCTTGAG 883  
Qy 841 ATAGGGTAGCTCTTGTGCTGTGGTGGAGACTAGTATCTGGAACCAAGATGATG 900  
Db 884 ATAGGGTAGCTCTTGTGCTGTGGTGGAGACTAGTATCTGGAACCAAGATGATG 943  
Qy 901 CTATGTCAAGAACCGGAGGCAATTTTCCACCTGTCCATTTTGGAAAATCTCTAGAAA 960  
Db 944 CTATGTCAAGAACCGGAGGCAATTTTCCACCTGTCCATTTTGGAAAATCTCTAGAAA 1003  
Qy 961 CTGTAGGTTTAACTTCAATCTGAGATGACACACATGCACTGGAATGAGAACAT 1020  
Db 1004 CTGTAGGTTTAACTTCAATCTGAGATGACACACATGCACTGGAATGAGAACAT 1063  
Qy 1021 TTATGTAGTGGCCATCTAGTGTTCAGATTCAGCTGAGAGCTTCAAGTGTGTTTTT 1080  
Db 1064 TTATGTAGTGGCCATCTAGTGTTCAGATTCAGCTGAGAGCTTCAAGTGTGTTTTT 1123  
Qy 1081 ATTATGTGGGTGCAATGATGATGTCAAATGCTTTTGTGTATGTGGCTTGAAGTGT 1140  
Db 1124 ATTATGTGGGTGCAATGATGATGTCAAATGCTTTTGTGTATGTGGCTTGAAGTGT 1183  
Qy 1141 GGGAACTGAGATGATCCATGGGTAGAACATGCCAAGTGTTCCAAGTGTGAGTCT 1200  
Db 1184 GGGAACTGAGATGATCCATGGGTAGAACATGCCAAGTGTTCCAAGTGTGAGTCT 1243  
Qy 1201 TGATACGATGAAAGCCAGAGTGTGTGATGAGATTCAGAGTATATCTCATCTTC 1260  
Db 1244 TGATACGATGAAAGCCAGAGTGTGTGATGAGATTCAGAGTATATCTCATCTTC 1303  
Qy 1261 TTGAACAGCTGTTCATCTCAATACCACTGGAAGAAATGCTGACCAACAATTA 1320  
Db 1304 TTGAACAGCTGTTCATCTCAATACCACTGGAAGAAATGCTGACCAACAATTA 1363  
Qy 1321 TTCAATTTGGACCTGGAGAAAGTCTTCAAGAAAGCTGATGATGATTAACCTGTGG 1380  
Db 1364 TTCAATTTGGACCTGGAGAAAGTCTTCAAGAAAGCTGATGATGATTAACCTGTGG 1423  
Qy 1381 TTAATATCTGCTTGGAAATGGCTTAAATAGAGACCTGTGAAAACAAAGTTCAGATA 1440  
Db 1424 TTAATATCTGCTTGGAAATGGCTTAAATAGAGACCTGTGAAAACAAAGTTCAGATA 1483  
Qy 1441 AAATCTGACAACTGGAAGAACTTAATAACATTAATGATATGTGTACACATCTTAA 1500  
Db 1484 AAATCTGACAACTGGAAGAACTTAATAACATTAATGATATGTGTACACATCTTAA 1543  
Qy 1501 ATGTGGAAGATGAAAAAG 1560  
Db 1544 ATGTGGAAGATGAAAAAG 1603

Qy 1561 ATGATTTGTCTTAATTCGGAAGACAGAAATGGCTCTCTTCAACAATGACATGTGTC 1620  
Db 1604 ATGATTTGTCTTAATTCGGAAGACAGAAATGGCTCTCTTCAACAATGACATGTGTC 1663  
Qy 1621 TTCTATCTCTGGAATATCTTTTAAAGCCAAATGATTAATTAACAGAAACATGATTA 1680  
Db 1664 TTCTATCTCTGGAATATCTTTTAAAGCCAAATGATTAATTAACAGAAACATGATTA 1723  
Qy 1681 TTAACAAAAACAAAGTACCTTTTCAAGGAGAGAACTGATTAATCAATTTTGGTTA 1740  
Db 1724 TTAACAAAAACAAAGTACCTTTTCAAGGAGAGAACTGATTAATCAATTTTGGTTA 1783  
Qy 1741 AAGAAATGCTGGGCAACATCTTCAAAAACCTGCTTAAAGAAATGATCTTACATGTT 1800  
Db 1784 AAGAAATGCTGGGCAACATCTTCAAAAACCTGCTTAAAGAAATGATCTTACATGTT 1843  
Qy 1801 ATAGAACTTAATTTGTGATAGAAATATGAGATATTTCCAAAGAGATGTTTCAAGTTC 1860  
Db 1844 ATAGAACTTAATTTGTGATAGAAATATGAGATATTTCCAAAGAGATGTTTCAAGTTC 1903  
Qy 1861 TGTCACTGGAAGAACATTTGAGAGAGTTGCAAGAAACGAATTTGATTAAGTGTATGG 1920  
Db 1904 TGTCACTGGAAGAACATTTGAGAGAGTTGCAAGAAACGAATTTGATTAAGTGTATGG 1963  
Qy 1921 ACAAGAAAGTTCTGTGATTAATTCCTTGTGGTCAATCTGTGTATGCAAGAAATGG 1980  
Db 1964 ACAAGAAAGTTCTGTGATTAATTCCTTGTGGTCAATCTGTGTATGCAAGAAATGG 2023  
Qy 1981 CCCCTTCTTAAGAAATATGCTTATTTTACAGAGGATTAATCAAGGATCTGTTCTACAT 2040  
Db 2024 CCCCTTCTTAAGAAATATGCTTATTTTACAGAGGATTAATCAAGGATCTGTTCTACAT 2083  
Qy 2041 TTCTCTCTTAAGAAATATGCTTATTTTAACTGATTAAGAAATGCTTTAAATATTT 2100  
Db 2084 TTCTCTCTTAAGAAATATGCTTATTTTAACTGATTAAGAAATGCTTTAAATATTT 2143  
Qy 2101 GTTGAACCTGGAAGCCATCTTAAGTAAAAAGGAAATATATAGTTTCAATTAAGTAA 2160  
Db 2144 GTTGAACCTGGAAGCCATCTTAAGTAAAAAGGAAATATATAGTTTCAATTAAGTAA 2203  
Qy 2161 TTCAATGTTCTAGTCTGTGTGTAATTAATATCTTGTTCGAAAAGATGATCAATA 2220  
Db 2204 TTCAATGTTCTAGTCTGTGTGTAATTAATATCTTGTTCGAAAAGATGATCAATA 2263  
Qy 2221 TTTAATCTTAATCTGTTATTTAACAAGGAAATTTATGTTTGTGGAATCTATATTAAT 2280  
Db 2264 TTTAATCTTAATCTGTTATTTAACAAGGAAATTTATGTTTGTGGAATCTATATTAAT 2323  
Qy 2281 GTATGTGATCTTAAGGAGTATGTCATGCTGTGTATGATCAATTCAGAGTTAATGG 2340  
Db 2324 GTATGTGATCTTAAGGAGTATGTCATGCTGTGTATGATCAATTCAGAGTTAATGG 2383  
Qy 2341 ATTGTGTGTTCTTCAAGAAAGCTTGAATATTAATTAATGATGAGAAAGACTGAAA 2400  
Db 2384 ATTGTGTGTTCTTCAAGAAAGCTTGAATATTAATTAATGATGAGAAAGACTGAAA 2443  
Qy 2401 CCAGAACTCTGAGGTTTCAATCAAGATTAATGATGAGGCAATGTCTTTGGTGTTCACCT 2460  
Db 2444 CCAGAACTCTGAGGTTTCAATCAAGATTAATGATGAGGCAATGTCTTTGGTGTTCACCT 2503  
Qy 2461 GTGTTTAAAAATAGAAATTTTCTTAATTTCTCCCTAGTTGTGAGAAACATCTCAA 2520  
Db 2504 GTGTTTAAAAATAGAAATTTTCTTAATTTCTCCCTAGTTGTGAGAAACATCTCAA 2563  
Qy 2521 TAAAGTCTTAAAAA 2536  
Db 2564 TAAAGTCTTAAAAA 2579

RESULT 8  
US-09-201-936-7  
; Sequence 7, Application US/09201936









Db 997 TACGAGAGGCGCAGATTTCTTACTTACAGATATGCGCTTAAAGTTTCTGTCAACG 1056  
Qy 800 AGAATGGCAAGAGCTGTTTTTATATATAGACCTGAGATAGAGGAGCTGTTTC 859  
Db 1057 AGAGCTGGCCAGAGCTGCTTCTATATACATAGGGCTGAGACAGGGGCGCTGTTTTC 1116  
Qy 860 CTGTGTGGAGAGCTGAGTAATCGGGAACCAAGAGATGATGCTATGTGACAAACCGAG 919  
Db 1117 CTGTGTGGAGAGCTGAGTAATCGGGAACCAAGAGATGATGCTATGTGACAAACCGAG 1176  
Qy 920 GCATTTTCCCACTGCTCATTTTGGAAAAATTTCTAGAACTGAGGTTTACATTTTC 979  
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Qy 980 AAATCTGAGCAGACACATGACGCTGCAATGAGAACTTATATGACTGGCATTCAG 1039  
Db 1237 AAATCTGAGCAGACACATGACGCTGCAATGAGAACTTATATGACTGGCATTCAG 1296  
Qy 1040 TGTTCAGCTTCAAGCTTGAAGCTTGAAGCTGCTGTTTATATATGAGGCTGCAATGA 1099  
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Db 1357 TGATGTCAAAATGCTTGT 1416  
Qy 1160 ATGGGTAGAACTATCCCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1219  
Db 1417 CTGTGTAGAACTATCCCAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1476  
Qy 1220 AGAGT 1279  
Db 1477 GAGT 1536  
Qy 1280 TTGAGTATCACTGTGAGAAAGAAATGCTGACCC-----ACATTTATCTTTTGAAC 1333  
Db 1537 TTGAGTATCACTGTGAGAAAGAAATGCTGACCCACAGACAGTGTGTGTGTGTGTGT 1596  
Qy 1334 TGGAGAAAGTCTTCAAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1393  
Db 1597 TGGAGAAAGTCTTCAAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1653  
Qy 1394 GGAATGGGCTTATATAGAGCTGTGTGAACAAACAGTTCAAGTAAATCTGTGACAC 1453  
Db 1654 GGAATGGGCTTATATAGAGCTGTGTGAACAAACAGTTCAAGTAAATCTGTGACAC 1713  
Qy 1454 TGGAGAAAGTCTTAT 1513  
Db 1714 TGGAGAAAGTCTTAT 1773  
Qy 1514 AAAAG 1573  
Db 1774 GAG 1833  
Qy 1574 AATTCGAG 1633  
Db 1834 GATTCGAG 1693  
Qy 1634 TAATCTTTTAAAGGCGCAATGTAATATATATATATATATATATATATATATATATAT 1693  
Db 1894 TAATCTTTTAAAGGCGCAATGTAATATATATATATATATATATATATATATATATAT 1953  
Qy 1694 ACAGATACCTTTACAG 1753  
Db 1954 ACAGATACCTTTACAG 2013  
Qy 1754 GCGCAATATCTTCAAAAGCTGTCTTAAAGAAATGACTTCACTTATATATATATATAT 1813  
Db 2014 AGCCAAATCTTCAAAAGCTGTCTTAAAGAAATGACTTCACTTATATATATATATATAT 2073  
Qy 1814 TGTGATATAGAAATATGAAAT 1873

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Qy 1874 ACAATGAG 1933  
Db 2134 GCAATGAG 2193  
Qy 1934 TGTGTATATATATCTTGT 1993  
Db 2194 TATGTGTATATCTTGT 2253  
Qy 1994 AAAATGCGCTTATTTGAGAGGAGTATATCAAGAGGAGTGTGTGTGTGTGTGTGTGT 2053  
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Qy 2054 AAAATGCTATATATTTTAACTGTCAATAAAGGCTTTTAAATGTGTGAACACTGA 2113  
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Qy 2114 AGCCATCTAAAGTAAAG 2173  
Db 2348 AGCTGTCAAG 2404  
Qy 2174 CTGCTTGTGACTATATATCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2233  
Db 2405 CTCTTCAAGATTAATATCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2464  
Qy 2234 TGTATATTTCAAG 2293  
Db 2465 TG-----TTGAG 2518  
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Db 2632 TACTCA--GTAGTATAG 2686  
Qy 2474 AGGATTTTCTCTTATTTCTCCCTAGTTGTGTGAGAAACATCTCAATAAGGCTTTAA 2533  
Db 2687 AGGATTTTCTCTTATTTCTCTCTGTAATATATTTCTGTGTGTGAGAAATATATTAAGTGTCT 2746  
Qy 2534 AAAAAA 2539  
Db 2747 TTTAAA 2752

RESULT 11  
PCT-US96-12860-13  
Sequence 13, Application PC/TUS9612860  
GENERAL INFORMATION:  
APPLICANT: TULARIK, INC.  
TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FLEHR, HOEBACH, TEST, ALBRITTON & HERBERT  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/12860  
FILING DATE: 06 AUG 1996





Db 2194 TATTGTTCATCCGTCGTCATCTAGTCTGCAAGAAATGCCCCCTCTCTAG 2253  
Qy 1994 AAAAGCCCTATTTCAGGGGTATATCAAGGTACTGTTGTACTTCTCTTAAAG 2053  
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Qy 2054 AAAAATAGTATATTTTAACTGATAAAAGCTTTAAATTTGTGAACCTTGA 2113  
Db 2312 -----GTGAAGATGCTGTAAGATTTGTGACACTGCA 2347  
Qy 2114 AGCCATCTAAAGTAAAAAGGAAATATGATTTTCAATTAGTAACTTCAATGTTAGT 2173  
Db 2348 AGCTGTCAAGAACAAAGATGAACTACTGA---TTTCACTCTTCAAGACATTTCTACT 2404  
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Qy 2414 AGTCATCAGATTAATGTCGCAATGCTTGTGTCCTTTTCACTTGTGTTAAATA 2473  
Db 2632 TACTCA--GTAGTATGGGTACCTGCTGCTTCTGTGCTCTTCTG---GAAATA 2686  
Qy 2474 AGAATTTTCTCTTATTTCTCCCCCTAGTTGTGGAATCATCTCAATAAAGCTTAA 2533  
Db 2687 AGAATTTTCTGCTACCTGTAATATTTCTGTTTGTGAATAATTAATTAAGCTTTCT 2746  
Qy 2534 AAAAAA 2539  
Db 2747 TTTAAA 2752

RESULT 12  
US-09-212-971-13  
; Sequence 13, Application US/09212971B  
; Patent No. 6107041  
; GENERAL INFORMATION:  
; APPLICANT: Korneluk, Robert G  
; APPLICANT: Mackenzie, Alexander E  
; APPLICANT: Liston, Peter  
; APPLICANT: Baird, Stephen  
; APPLICANT: Tsang, Benjamin K  
; APPLICANT: Pratt, Christine  
; TITLE OF INVENTION: DETECTION AND MODULATION OF INH AND  
; TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
; FILE OF INVENTION: DISEASE  
; FILE REFERENCE: 07891/009002  
; CURRENT APPLICATION NUMBER: US/09/212, 971B  
; EARLIER FILING DATE: 1998-12-16  
; EARLIER APPLICATION NUMBER: 60/017, 354  
; EARLIER FILING DATE: 1996-04-26  
; EARLIER APPLICATION NUMBER: 60/030, 590  
; EARLIER FILING DATE: 1996-11-14  
; EARLIER APPLICATION NUMBER: 08/800, 929  
; EARLIER FILING DATE: 1997-02-13  
; NUMBER OF SEQ ID NOS: 17  
; SOFTWARE: PastsEQ for Windows Version 4.0  
; SEQ ID NO 13  
; LENGTH: 3151  
; TYPE: DNA  
; ORGANISM: Mus musculus  
US-09-212-971-13

Query Match 51.9%; Score 1343.6; DB 3; Length 3151;  
Best Local Similarity 76.2%; Pred. No. 3,58-278;  
Matches 1852; Conservative 0; Mismatches 499; Indels 79; Gaps 13;

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Db 762 AAATACATTT--ACTACTCATGACAAATCTGTCTCCAGATCTCGCCAAAGTACTT 819  
Qy 236 GTATCAAAACATTAAGATTAATGAAAGATAGCAGATCTTGTCAATTTGAACAAACAG 295  
Db 820 ACACCAAAACTTAAAGTAAATGAGAGAGACAAATCTTGTCAATTTGAACAAAGGA 879  
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Qy 356 AACTTCCCGCGCGGGGTCCTGTCTGAAAGAGCTTGTGCTGCTGCTGTTTATTA 415  
Db 940 AGCTTTTCCAGGGGATTTCTGTCTCAGAGAGAGTCTGCTGTGCTGCTTTTATTA 999  
Qy 416 TACTGTGTGAATGACAAAGTCAATATGCTTCTGTGTGCTGTGATGCTGATTAATGGA 475  
Db 1000 TACAGGTGTGAATGACAAAGTCAATATGCTTCTGTGTGCTGTGATGCTGATTAATGGA 1059  
Qy 476 ACTAGGAGACAGTCTTATTAAGAAAGCTTAATCTTATCTGATGCTTATTTCA 535  
Db 1060 ACAAGGGGACAGTCTTGTGAAGGACAGACAGATTTTATCCAGCTGCAAGCTTTTGA 1119  
Qy 536 GAATCTGTTTCACTGCTGCTGAGTCACTTCAATTAAGTATGCTCAATGAGAAACAG 595  
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Qy 596 TTTTGCATTTCAATTAATCTTCCACCTTGAACATTAATGCTTGTGATGCTTATCTC 655  
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Qy 656 CAGCTTTTCCCAACCTTCTTATTTTATGAGAGTGAAGACATCTTCAATGAGAGAC 715  
Db 1222 CAACCTGTGCTTCAAGCTTCTTATTTCTAGAGAGTGAAGACATCTC---TCATTAAGAT 1278  
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Qy 776 GCCATTAATTTTGTCAACATGATGATGATGATGATGATGATGATGATGATGATGATG 835  
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Qy 836 TGAAGATAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 895  
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2116 GATGCGATCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2175  
1610 GACATGTGCTCTCTATCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1669  
2176 GACATGTGCTCTCTATCTGATGATGATGATGATGATGATGATGATGATGATGATGAT 2235  
1670 ACATGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1729  
2236 ACATGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 2295  
1730 CATTTGGTAAAGAAATGCTGCGCAATCTTCAAACTGCTTAAAGAAATGTA 1789  
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2356 CTCTAATGTAAGGAAATGCTGCGCAATCTTCAAACTGCTTAAAGAAATGTA 2415  
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2416 CGTTTCAGGTCTGCTGATGAGAGAGAGTTCAGAGAGAGAGAGAGAGAGAGAGAGAG 2475  
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2536 CCAAGAAATGAGAGAGAGAGAGTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2595  
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2150 AATTAGTAACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2209  
2687 AGCTCTCAGAGAGAGAGAGAGTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2746  
2210 GGTATCATATATTAATCTGTTTATTAACAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2269

2747 AGCATGTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 2800  
2270 TATATAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2329  
2801 TACAGAGAGTGTCTGCTGATGAGAGAGAGTTCAGAGAGAGAGAGAGAGAGAGAGAGAG 2856  
2330 GAGATTAAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2389  
2857 GAGATTAAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2449  
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2914 AATCTGTAAGAGAGAGAGAGTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2571  
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RESULT 13  
US-08-800-929A-13  
Sequence 13, Application US/08800929A  
Patent No. 6133437  
GENERAL INFORMATION:  
APPLICANT: Korneljuk, Robert G  
APPLICANT: Mackenzie, Alexander E  
APPLICANT: Lisdon, Peter  
APPLICANT: Baird, Stephen  
APPLICANT: Tsang, Benjamin X  
APPLICANT: Pratt, Christine  
TITLE OF INVENTION: DETECTION AND MODULATION OF  
TITLE OF INVENTION: IAPS AND NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE  
NUMBER OF SEQUENCES: 17  
CORRESPONDENCE ADDRESSES:  
ADDRESSEE: Clark & Elding LLP  
STREET: 176 Federal Street  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02110  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/800,929A  
FILING DATE: 13-FEB-1997  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 60/030,590  
FILING DATE: 14-NOV-1996  
APPLICATION NUMBER: 60/017,354  
FILING DATE: 26-APR-1996  
ATTORNEY/AGENT INFORMATION:  
NAME: Bleker-Brady, Kristina  
REGISTRATION NUMBER:  
REFERENCE/DOCKET NUMBER: 07891/009001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 617-428-0200  
TELEFAX: 617-428-7045  
TELEX:  
INFORMATION FOR SEQ ID NO: 13:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3151 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single

! TOPOLOGY: linear  
! MOLECULE TYPE: cdna  
US-08-800-929A-13

Query Match 51.9%; Score 1343.6; DB 3; Length 3151;  
Best Local Similarity 76.2%; Pred. No.3.5e-278;  
Matches 1852; Conservative 0; Mismatches 499; Indels 79; Gaps 13;

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QY 116 TTTGGTGTAAAAATCTTAACTCATGTGCAAGAAATTTCACTGAAATGTTTTAGCTATCAA 175
DB 702 TGTGTGTGAGATCTAGTGTCCAAAGGTGTGAGAAATTTCACTGAAATGTTTTAGCGGTGAG 761
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DB 762 AAATACATTT--ACTACTCATGACCAAAATCTGTCTCCAGAGACTCGGCAAGGTACTTT 819
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DB 820 ACACCAAAAATTTAAAGCTATATATGAGAAAGACACATCTGTTCAAATTTGACCAAAAGGA 879
QY 296 CAACAAACAAAAATGAAGTATGACTTTTCTGTGAACCTTACAGAAATGTCTACATATTC 355
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DB 1060 ACAAGGGAGACAGTCTGTGTGAAAGACACAGAGTCTATCCAGCTGACAGCTTTGTACA 1119
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QY 656 CAGCTTTTCTCCAAACCTCTTAATTTGAGAGAGTTGAACATCTCTTCATGAGAGAC 715
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QY 776 GCCATTAATCTTTTGTCAACCATGAGATTTGGCAAGAGCTGTTTTATTATATAGAAC 835
DB 1339 GCCTTTAAGTTTTTGTCAACGAGAGAGTGTGCAAGAGCTGTCTTCAATTAATAGAGCC 1398
QY 836 TGAAGATAGGAGTACCTGTGTGTGCTGTGTGAGAGCTCAATTAAGTGAACCAAGGA 895
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DB 1819 TCTTCTGAGAGGCTGTGTCTCACTGACACCCAGAGAAAGAAATGCTGAGCCCTAC 1878
QY 1313 ---ACCAATTAATTCATTTTGAACCTGAGAAAGTTCTTCAAGAAATGCTGATGATA 1369
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QY 1430 AGTTCAAGTAAATCTGACAACTGAGAGAACTATTAACATTAATATATTTGTCTC 1489
DB 1996 GGTTCAGGCGACAGTCTTGCCCACTGTGTGAACTTACAGAGACCTGCAATGATATTTGCTC 2055
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QY 1610 GACATGTGTCTTCTTATCTGTGATATCTTTTAAAGGCCAATGTATTAATAACAGGA 1669
DB 2176 GACACATGTCTTCTTATCTGTGATATCTTTTAAAGGCCAAGTATTAATAACAGGA 2235
QY 1670 ACATGATATTAATTAACAAAGAAACACAGATACCTTTACAGAGGAGAGAGAGAGAGAG 1729
DB 2236 ACATGATATTAATTAACAAAGAAACACAGATACCTTTACAGAGGAGAGAGAGAGAGAG 2295
QY 1730 CATTTGTGTTAAAGAAATGCTGCGGCAACATCTTCAAAACCTGTCTAAAGAAATGA 1789
DB 2296 CGTTTATGTCAGAGAAATGCTGCGGCAACATCTTCAAAACCTGTCTAAAGAAATGA 2355
QY 1790 CTCTACATTTGTATTAAGAACTTATTTGTGATTAAGATTAAGATTAATTTCCACAGAGA 1849
DB 2356 CTCACGTTATTAAGAACTTATTTGTGATTAAGATTAAGATTAATTTCCACAGAGA 2415
QY 1850 TGTTCAGGCTCTGCACTGAGAAACAAATGAGAGAGGTTCAAGAAAGAGAACTTTAA 1909
DB 2416 CGTTTCAGGCTCTGCACTGAGAAACAAATGAGAGAGGTTCAAGAAAGAGAACTTTAA 2475
QY 1910 AGTGTGATGAGCAAGAAAGATTCTGTGTATTAATTTCTGTGTGATCTGTGATGATG 1969
DB 2476 AGTGTGATGAGCAAGAGGTTCTATTTGTGATTTCAATTCGTGTGTGATCTGTGATGATG 2535
QY 1970 CAGGAATGTGCCCCCTTCTTAAGAAATGCTTATTTGAGAGGATTAATCAAGGTTAC 2029
DB 2536 CAGGAATGTGCCCCCTTCTTAAGAAATGCTTATTTGAGAGGATTAATCAAGGTTAC 2595
QY 2030 TGTTCGATCAATTTCTCTTAAAGAAATTAATTTAATTTAATCTGATTAAGAGTCTC 2089
DB 2596 TGTTCGATCAATTTCTCTGATGA-----GTGGAAGATGCT 2629
QY 2090 TTTAAATATTTGTGAACATTTAAGCATTAAGTAAAGAGGATTAATGAGTTTTC 2149
DB 2630 CTGAAGATATTTGTGAACATTAAGCATTAAGTAAAGAGGATTAATGAGTTTTC 2686
QY 2150 AATTAGTAATTTCAATTTCTGCTTGTGTGATTAATTTCTGTAAGAT 2209
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Db 2687 AGCTTTACAGAGCAATCTACTCTCTTCAAGATTAATCTGCTTTATGAAGGT 2746
QY 2210 GGTATCATATATTAATCTTAATCTGTTATTTACAGAGAAATTTATGTTGTAAC 2269
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QY 2330 GGAGTACTGAGATTGTTGTTCTTTTCAAGAGCTTTGAATTAATTAATGATGTAAGAA 2389
Db 2857 GGACTCTTGGAAT--TTGAATTTGTAAGCTTTGGAATCAAGTGAATGAGCTCAAG 2913
QY 2390 AGAAGTGAAGAACAGAGAACTCTGAGTTCATCAGATTATGATGTCGAAATGCTTTGGT 2449
Db 2914 AATCTGAAACAGAGGCTCTGTAAGTCTA--CTAGTTAAGGTAACCTGCTGCTTCTGGT 2971
QY 2450 GCTTTTCACTGTTGTTTAAATTAAGATTTTCTTATTTCTCCCTGAGTTGTGAG 2509
Db 2972 GCTTTTCTCTTCTG--GAAATTAAGATTTTCTGCTAAGTGAATATTTCTGTTG 3028
QY 2510 AATCATCTAATAGTCTTTAAAAAAA 2539
Db 3029 TGAATAATATTAAGTCTTTTAAAA 3058

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## RESULT 14

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US-09-617-053A-13
/ Sequence 13, Application US/09617053A
/ Patent No. 6300492
/ GENERAL INFORMATION:
/ APPLICANT: Korneiluk, Robert G
/ APPLICANT: Mackenzie, Alexander E
/ APPLICANT: Lison, Peter
/ APPLICANT: Baird, Stephen
/ APPLICANT: Tbang, Benjamin K
/ APPLICANT: Pratt, Christine
/ TITLE OF INVENTION: DETECTION AND MODULATION OF IAVS AND
/ TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TRIATMENT OF PROLIFERATIVE
/ FILE OF INVENTION: DISEASE
/ FILE REFERENCE: 07891/009003
/ CURRENT APPLICATION NUMBER: US/09/617, 053A
/ CURRENT FILING DATE: 2000-07-14
/ PRIOR APPLICATION NUMBER: US 08/800, 929
/ PRIOR FILING DATE: 1997-02-13
/ NUMBER OF SEQ ID NOS: 17
/ SOFTWARE: PaasSeq for Windows Version 4.0
/ SEQ ID NO 13
/ LENGTH: 3151
/ TYPE: DNA
/ ORGANISM: Mus musculus
US-09-617-053A-13

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Query Match 51.9%; Score 1343.6; DB 4; Length 3151;
Best Local Similarity 76.2%; Pred. No. 3.5e-478;
Matches 1852; Conservative 0; Mismatches 499; Indels 79; Gaps 13;

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Db 762 AATTAATCTAAT--ACTACTATGACAAACTGTCTCCAGAGCTGGGCAAGGTACCTT 819
QY 236 GATTAACAATTAAGATTAATGAGATGACAGATTTTCTGATTTGACAAACAG 295
Db 820 ACACCAAAATCTTAACGTAATGAGAGACCAATCTTCTCAAAATTTGACAAAGAG 879
QY 296 CAACAACAAAATGAAGTATGATCTTTCTGTAAGTCTACAGATGCTCATATTT 355
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QY 356 AACTTTCGCCCGGGGTCCTGTCTCAGAAAAGAGTCTGTCTGCTGCTGTTTATTA 415
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QY 656 GAGCTTCTCCAAACCTCTTAATTTCTAGAGCAGTGAAGACATCTCTTCAATGAGAC 715
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QY 1370 TACACCTGTGTTAATCTGCTTGAATGAGCTTATTAATGAGCTGTGTAACAAAC 1429
Db 1936 CAGGCTGTGTTAATGAGCTTGAATGAGCTTGAATGAGCTGTGTAACAAAC 1995

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2056 AGTACTTTTGAATGCTGAAGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2115  
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Db 3029 TGAGAAATATATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 3058

RESULT 15  
US-09-201-936-41  
Sequence 41, Application US/09201936  
Patent No. 6541457  
GENERAL INFORMATION:  
APPLICANT: Korneluk, Robert G.  
APPLICANT: Mackenzie, Alexander E.  
APPLICANT: Baird, Stephen  
TITLE OF INVENTION: MAMMALIAN IAP GENE FAMILY, PRIMERS,  
FILE REFERENCE: 07891/003003  
CURRENT APPLICATION NUMBER: US/09/201,936  
EARLIER FILING DATE: 1998-12-01  
EARLIER APPLICATION NUMBER: 09/011,356  
EARLIER FILING DATE: 1998-02-04  
EARLIER APPLICATION NUMBER: PCT/IB96/01022  
EARLIER FILING DATE: 1996-08-05  
EARLIER APPLICATION NUMBER: 08/576,956  
EARLIER FILING DATE: 1995-12-22  
EARLIER APPLICATION NUMBER: 08/511,485  
NUMBER OF SEQ ID NOS: 45  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 41  
LENGTH: 2416  
TYPE: DNA  
ORGANISM: Mus musculus  
US-09-201-936-41

Query Match 51.4%; Score 1330.4; DB 4; Length 2416;  
Best Local Similarity 76.4%; Pred. No. 2.2e-275; Indels 74; Gaps 12;  
Matches 1816; Conservative 0; Mismatches 486;

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180 AAG 239  
355 CAATTTCCCGCGGGGCTGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 414  
240 CAGCTTTCCCGGGGAGTTCCTGCTGCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 299  
415 ATATGAG 474  
300 ATACAG 359  
475 AATTAAG 534  
360 AACAG 419  
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420 AGATCTGCTTCAAG 479  
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Search completed: December 4, 2003, 14:34:30  
Job time : 176 secs



GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: December 4, 2003, 14:22:05 ; Search time 815 Seconds

(without alignments)  
10558.035 Million cell updates/sec

Title: US-08-569-749-1

Perfect score: 2589  
Sequence: 1 TCTAAGAGAGATCTTGAAA.....AAAAAAAAAAAAAAAAAAAA 2589

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 2201672 seqs, 166179959 residues

Total number of hits satisfying chosen parameters: 4403344

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :

Published Applications NA:\*

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2: /cgn2\_6/ptodata/2/pubpna/PCT\_NEW\_PUB.seq:\*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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2	2549.2	98.5	4614	12 US-09-814-353-19934	Sequence 19934, A
3	2535.8	97.9	3532	10 US-09-880-107-3354	Sequence 3354, Ap
4	2535.8	97.9	3732	10 US-09-874-592-7	Sequence 7, Appl1
5	2531	97.8	2531	14 US-10-207-655-199	Sequence 199, App
6	2531	97.8	3496	14 US-10-153-668-337	Sequence 337, Appl1
7	2514.8	97.1	2580	10 US-09-201-936-7	Sequence 7, Appl1
8	1430.2	55.2	1435	8 US-08-464-588-1	Sequence 1, Appl1
9	1430.2	55.2	1435	14 US-10-323-643-1	Sequence 13, Appl1
10	1345.2	52.0	2862	12 US-10-232-286-13	Sequence 13, Appl1
11	1343.6	51.9	3151	10 US-09-574-592-13	Sequence 13, Appl1
12	1330.4	51.4	2416	10 US-09-201-936-41	Sequence 41, Appl1
13	1157	44.7	3076	10 US-09-954-456-1635	Sequence 1635, Ap
14	1157	44.7	3076	10 US-09-954-531-16	Sequence 16, Appl1
15	1157	44.7	3076	14 US-10-197-290-1	Sequence 1, Appl1
16	1155.4	44.6	5857	12 US-10-247-671-18	Sequence 18, Appl1

17	1155.2	44.6	5844	12 US-09-971-392-253	Sequence 253, App
18	1153.8	44.6	3164	12 US-10-141-618-5	Sequence 5, Appl1
19	1153.8	44.6	3165	12 US-10-269-909-5	Sequence 5, Appl1
20	1153.6	44.6	2601	12 US-10-232-286-3	Sequence 3, Appl1
21	1152.2	44.5	6669	10 US-09-974-592-5	Sequence 5, Appl1
22	1149	44.4	2676	10 US-09-201-936-5	Sequence 5, Appl1
23	1078.4	41.7	2291	9 US-08-778-9274-21	Sequence 21, Appl1
24	931.6	36.0	2676	10 US-09-974-592-11	Sequence 11, Appl1
25	921.8	35.6	3250	10 US-09-201-936-39	Sequence 39, Appl1
26	806.6	31.2	2474	12 US-10-353-461-7	Sequence 7, Appl1
27	754.2	29.1	7049	12 US-10-311-455-130	Sequence 130, App
28	754.2	29.1	7049	12 US-10-240-452-6	Sequence 6, Appl1
29	744	28.7	7049	12 US-10-311-455-129	Sequence 129, App
30	744	28.7	7049	12 US-10-240-452-5	Sequence 5, Appl1
31	475.4	18.4	477	14 US-10-102-524-591	Sequence 591, App
32	473.8	18.3	477	14 US-10-102-524-459	Sequence 459, App
33	406.4	15.7	471	11 US-09-918-995-37203	Sequence 37203, A
34	344.6	13.3	6681	12 US-10-311-455-127	Sequence 127, App
35	344.6	13.3	6681	12 US-10-240-452-3	Sequence 3, Appl1
36	305.2	11.8	460	10 US-09-960-352-8049	Sequence 8049, App
37	296.4	11.4	6681	12 US-10-311-455-128	Sequence 128, App
38	296.4	11.4	6681	12 US-10-240-452-4	Sequence 4, Appl1
39	274.2	10.6	419	10 US-09-960-352-4272	Sequence 4272, App
40	274.2	9.5	401	11 US-09-918-995-36214	Sequence 36214, A
41	243.4	9.4	565	12 US-10-029-386-12570	Sequence 12570, A
42	195.8	7.6	255	14 US-10-102-524-906	Sequence 906, App
43	149.6	5.8	240	10 US-09-796-692-3493	Sequence 3493, App
44	149.6	5.8	240	14 US-10-040-862-3493	Sequence 3493, App
45	148	5.7	240	10 US-09-796-692-6687	Sequence 6687, App

#### ALIGNMENTS

RESULT 1  
US-10-232-286-1  
Sequence 1, Application US/10232286  
Publication No. US20030143579A1

GENERAL INFORMATION:  
APPLICANT: Rothe, Mike  
TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: FLEHR, HOHBACH, TEST, ALBRITTON & HERBERT  
STREET: 4 Embarcadero Center, Suite 3400  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/10/232,286  
FILING DATE: 30-Aug-2002  
CLASSIFICATION: <Unknown>  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: US/08/569,749  
FILING DATE: <Unknown>  
ATTORNEY/AGENT INFORMATION:  
NAME: Brezner, David J.  
REGISTRATION NUMBER: A-62464/DJB  
REFERENCE/DOCKET NUMBER: A-62464/DJB  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (415)781-1989  
TELEFAX: (415)398-3249

INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2589 base pairs  
TYPE: nucleic acid



STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
US-10-232-286-1

Query Match 100.0%; Score 2589; DB 12; Length 2589;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2589; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCTAAGTATCTTGAAGAAATTCAGAGAGATCTCACTCCAGTAAATAACTGAGAT 60  
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DB 61 AAATCCAGTAAAGAAAGTGTAGTAAATTTACATTAAGAGTCTAATCATTTATTTTGG 120  
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DB 181 ACTGACCTTACATGACCAAAAAGTCCCTCCAAAAGACTTTTCCAGGTCCTCTGATC 240  
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DB 241 AAAACATTAAGATTAATGAAGATAGACAGATCTTGTACAGATTGGACAACAGCAACA 300  
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DB 301 AACAAAATGAAGATAGATCTTTTCTGTGAACTTACAAATATGTCTACATATTCAACTT 360  
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DB 421 GTGTGATGACAGAGTCAAAATGCTTGTGTGTGAGCCCTGATGCTGATTAATGAGAACTAG 480  
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DB 781 TAACATTTTGTGACATCAGATTTGGCAAGAGCTGGTTTATATATATGAGACCTGGAG 840  
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QY 1801 AATAGAACTTATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1860  
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QY 1861 TGTCACTGAGAGAACATTTGAGAGAGTTCAGAAAGAAAGAACTTGTAAAGTGTATG 1920  
DB 1861 TGTCACTGAGAGAACATTTGAGAGAGTTCAGAAAGAAAGAACTTGTAAAGTGTATG 1920  
QY 1921 ACAAAGAGTTTCTGTGATTAATTTCTGTGTGTGATGATGATGATGATGATGATGATG 1980  
DB 1921 ACAAAGAGTTTCTGTGATTAATTTCTGTGTGTGATGATGATGATGATGATGATGATG 1980  
QY 1981 CCCCTTCTTAAGAAATGAGCTTATTTGAGAGGATTAATCAAGGATGATGATGATGATG 2040  
DB 1981 CCCCTTCTTAAGAAATGAGCTTATTTGAGAGGATTAATCAAGGATGATGATGATGATG 2040

QY 2041 TTCTCTTAAAGAAAATAGCTATATTTTAACTGCAAAAAGCTTTAAATAT 2100  
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Db 2581 AAAAAA 2589

## RESULT 2

US-09-814-353-19934  
; Sequence 19934, Application US/09814353  
; Publication No. US20030165831A1  
; GENERAL INFORMATION:  
; APPLICANT: Thompson, Pamela  
; APPLICANT: Lee, John  
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR  
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND  
; FILE REFERENCE: MRI-006B  
; CURRENT APPLICATION NUMBER: US/09/814,353  
; CURRENT FILING DATE: 2001-03-21  
; PRIOR APPLICATION NUMBER: US 60/191,031  
; PRIOR FILING DATE: 2000-03-21  
; PRIOR APPLICATION NUMBER: US 60/207,124  
; PRIOR FILING DATE: 2000-05-25  
; PRIOR APPLICATION NUMBER: US 60/211,940  
; PRIOR FILING DATE: 2000-06-15  
; PRIOR APPLICATION NUMBER: US 60/216,820  
; PRIOR FILING DATE: 2000-07-07  
; PRIOR APPLICATION NUMBER: US 60/220,661  
; PRIOR FILING DATE: 2000-07-25  
; PRIOR APPLICATION NUMBER: US 60/257,672  
; NUMBER OF SEQ ID NOS: 22037  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 19934  
; LENGTH: 4614  
; TYPE: DNA  
; ORGANISM: Homo sapiens

FEATURE:  
; NAME/KEY: misc.feature  
; LOCATION: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 4595, 4613, 4614  
; OTHER INFORMATION: n = A,T,C or G  
US-09-814-353-19934

Query Match 98.5%; Score 2549.2; DB 12; Length 4614;  
Best Local Similarity 99.6%; Pred. No. 0;  
Matches 2554; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

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QY 181 ACTGTCACTTCTATGACAAACCTGCTCCAAAGCTTTCCAGGTCCCTGTATC 240  
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QY 241 AAAACATTAAGATTAATGAGATAGCAAGATCTTGTCAATTTGACAAACAGACA 300  
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QY 301 AACAAAAATGAGATAGATCTTCTCTGTGAACCTCTACAGAAATCTACATTTCACTT 360  
Db 2336 AACAAAAATGAGATAGATCTTCTCTGTGAACCTCTACAGAAATCTACATTTCACTT 2395  
QY 361 TCCCGCGCGGGGTCGTCTCAGAAAAGAGCTTGGCTCGAGCTGTTTATATATCTG 420  
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QY	961	TCCTGAGGTTTGAATTTCAATCTGACACGACGACACACACGACCTCGAATGGAACAT	1020
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QY	1081	ATTATGTGGGTTCGCAATGATGATGTCAAATGCTTTTGTGTGATGTGGCTTGAAGTGT	1140
Db	3116	ATTATGTGGGTTCGCAATGATGATGTCAAATGCTTTTGTGTGATGTGGCTTGAAGTGT	3175
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Db	3176	GGAATCTGAGATGATCATGCGGTGAGAACATGCCAAGTGGTTTCAAAGTGTAGTTC	3235
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Db	3236	TGATTCGAAATGAAAGGCCAAGATTTGTGTGATGAGATTCAGAGTATATCTCATCTTC	3295
QY	1261	TTGAAACGCTGTGTGCACTTCAGATACCTGAGAGAAATGCTGACCCACCAATTA	1320
Db	3296	TTGAAACGCTGTGTGCACTTCAGATACCTGAGAGAAATGCTGACCCACCAATTA	3355
QY	1321	TTTCATTTTGGACCTGAGAGAAAGTTCCTTCAGAGATGCTGTCATGATGATTCACCTGTGG	1380
Db	3356	TTTCATTTTGGACCTGAGAGAAAGTTCCTTCAGAGATGCTGTCATGATGATTCACCTGTGG	3415
QY	1381	TTTAAATCTGCTTGGAATGGGCTTTAATGAGACTGTGGTAAACAAACAGTTCAAAGTA	1440
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Db	3656	TTCTTATCTCGATATATCTTTTAAAGGCAATGTATTAATAACAGAACATGATATTA	3715
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QY	1861	TGTCACTGGAAGAACAAATTGAGAGGTTTGCAGAGAACGAACTTTGTTAAATGTGTATGG	1920
Db	3896	TGTCACTGGAAGAACAAATTGAGAGGTTTGCAGAGAACGAACTTTGTTAAATGTGTATGG	3955
QY	1921	ACAAAGAAAGTTCTGTGTGATTTTATTCCTTGTGTCATCTGTGTATGTCACAGAAATGTG	1980
Db	3956	ACAAAGAAAGTTCTGTGTGATTTTATTCCTTGTGTCATCTGTGTATGTCACAGAAATGTG	4015
QY	1981	CCCCCTCTCTAAGAAAATGCCCTTATTTGACAGGGGTATATCAAGGATCTGTTGTATCAT	2040
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[illegible]

```

RESULT 3
US-09-880-107-3354
; Sequence 3354, Application US/09880107
; Patent No. US20020142981A1
GENERAL INFORMATION:
APPLICANT: Horne, DarcI T.
APPLICANT: Vockley, Joseph G.
APPLICANT: Scherf, Uwe
APPLICANT: Gene Logic, Inc.
TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
FILE REFERENCE: 44921-5028-WO
CURRENT APPLICATION NUMBER: US/09/880.107
CURRENT FILING DATE: 2001-06-14
PRIOR APPLICATION NUMBER: US 60/211,379
PRIOR FILING DATE: 2000-06-14
PRIOR APPLICATION NUMBER: US 60/237,054
PRIOR FILING DATE: 2000-10-02
NUMBER OF SEQ ID NOS: 3950
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 3354
LENGTH: 3532
TYPE: DNA
ORGANISM: Homo sapiens
FEATURES:
OTHER INFORMATION: Genbank Accession No. US20020142981A1 U37547
US-09-880-107-3354

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	Query Match	Similarity	97.9%	Score	253.8	DB	10	Length	3532
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Qy 541 TGT 600  
Db 1506 TGT 1565  
Qy 601 CACATTAATTAATCTTCAACCTTGAACATAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 660  
Db 1566 CACATTAATTAATCTTCAACCTTGAACATAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1625  
Qy 661 TTTTCTCAAAACCTTCTTAATCTAGAGCATTTGAAGCATTTCTTCAATCGAGACTAAC 720  
Db 1626 TTTTCTCAAAACCTTCTTAATCTAGAGCATTTGAAGCATTTCTTCAATCGAGACTAAC 1685  
Qy 721 CTTACAGTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780  
Db 1686 CTTACAGTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1745  
Qy 781 TTAATTTTTTGTCAACATGATGATGATGATGATGATGATGATGATGATGATGATGAT 840  
Db 1746 TTAATTTTTTGTCAACATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1805  
Qy 841 ATAGGATAGCTGT 900  
Db 1806 ATAGGATAGCTGT 1865  
Qy 901 CTATGTCAAGAACACCGAGAGGATTTTCCACTGTGTCAATTTTGAAGAAATCTTGAAG 960  
Db 1866 CTATGTCAAGAACACCGAGAGGATTTTCCACTGTGTCAATTTTGAAGAAATCTTGAAG 1925  
Qy 961 CTGTGAGGTTTGAAGATTTCAAAATCTGAGCATGCAACATGCAAGCTGTGAAGAAAT 1020  
Db 1926 CTGTGAGGTTTGAAGATTTCAAAATCTGAGCATGCAACATGCAAGCTGTGAAGAAAT 1985  
Qy 1021 TTATGTACTGAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1080  
Db 1986 TTATGTACTGAGCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2045  
Qy 1081 ATTAATGT 1140  
Db 2046 ATTAATGT 2105  
Qy 1141 GGGAAATCTGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1200

Db 2106 GGGAAATCTGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2165  
Qy 1201 TGATACGAATGAAGAGGCAAGAGATTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1260  
Db 2166 TGATACGAATGAAGAGGCAAGAGATTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2225  
Qy 1261 TTGAACAGCTGT 1320  
Db 2226 TTGAACAGCTGT 2285  
Qy 1321 TTGATTTTGAACCTGAGAAAGTCTTCAAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1380  
Db 2286 TTGATTTTGAACCTGAGAAAGTCTTCAAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGT 2345  
Qy 1381 TTAATCTGCTTGTGAAGTGGCTTTAATGAGACTGTGTGAACAAACAGTTCAAGTA 1440  
Db 2346 TTAATCTGCTTGTGAAGTGGCTTTAATGAGACTGTGTGAACAAACAGTTCAAGTA 2405  
Qy 1441 AAATCTGACACTGAGAGATTAATAACAGTTAATGATGTGTGTGTGTGTGTGTGTGT 1500  
Db 2406 AAATCTGACACTGAGAGATTAATAACAGTTAATGATGTGTGTGTGTGTGTGTGTGT 2465  
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Qy 1561 ATGATTTGTATTAATCTGAGAGACAGATGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1620  
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Qy 1621 TTCTATCTGTGATTAATCTTTTAAAGGCAATGATTAATAACAGAAACATGATTA 1680  
Db 2586 TTCTATCTGTGATTAATCTTTTAAAGGCAATGATTAATAACAGAAACATGATTA 2645  
Qy 1681 TTTAAACAAAACACAGATACCTTTTCAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1740  
Db 2646 TTTAAACAAAACACAGATACCTTTTCAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2705  
Qy 1741 AAGAAATGTGTGGGCAACATCTTCAAAAACCTGTAAAGAAATGACTTCAATGT 1800  
Db 2706 AAGAAATGTGTGGGCAACATCTTCAAAAACCTGTAAAGAAATGACTTCAATGT 2765  
Qy 1801 ATTAAGAACTTATTTGT 1860  
Db 2766 ATTAAGAACTTATTTGT 2825  
Qy 1861 TGTCACTGGAAGAACATGAGAGGTTGTGCAAGAAAGCACTGTGAAGTGTGTGTGT 1920  
Db 2826 TGTCACTGGAAGAACATGAGAGGTTGTGCAAGAAAGCACTGTGAAGTGTGTGTGTGT 2885  
Qy 1921 ACAAGAAAGTTTCTGT 1980  
Db 2886 ACAAGAAAGTTTCTGT 2945  
Qy 1981 CCCCTTCTTAAGAAATGCTTATTTTGAAGGGGTATTAACAGGTAATGCTGTGTGT 2040  
Db 2946 CCCCTTCTTAAGAAATGCTTATTTTGAAGGGGTATTAACAGGTAATGCTGTGTGTGT 3005  
Qy 2041 TTCTCTTTTAAAGAAATAGTCTATTAATTTTAACTGTGATTAAGAAAGTCTTTTAAAT 2100  
Db 3006 TTCTCTTTTAAAGAAATAGTCTATTAATTTTAACTGTGATTAAGAAAGTCTTTTAAAT 3065  
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Db 3066 GTTGAACACTGGAAGCATTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAGTAAG 3125  
Qy 2161 TTCAATGT 2220  
Db 3126 TTCAATGT 3185  
Qy 2221 TTTAATCTTAATCTGT 2280  
Db 3186 TTTAATCTTAATCTGT 3245

QY	2281	GTATGTTACTAAGGAGTGTGTCTACTGTTGTATTCATCAATTCCAGAGTACTCG	2340
Db	3246	GTATGTACTCTAAGGAGTGTGTCTACTGTTGTATTCATTCACAGATTACTCG	3305
QY	2341	ATTGTGTGTTCTTTCAGAAAGCTTTGAATCTAATATTATATGTGTAGAAAAGAACTGAAA	2400
Db	3306	ATTGTGTGTTCTTTCAGAAAGCTTTGAATCTAATATTATATGTGTAGAAAAGAACTGAAA	3365
QY	2401	CCAGGAACCTCGAGGTTTCATCAGAGTATGTGTGCGAATGTCTTGTGCTTCACTT	2460
Db	3366	CCAGGAACCTCGAGGTTTCATCAGAGTATGTGTGCGAATGTCTTGTGCTTCACTT	3425
QY	2461	GTGTTTTAAATAAGAGATTTTCTCTTATTTCTCCCTAGTTTGTGAAAACATCTCAA	2520
Db	3426	GTGTTTTAAATAAGAGATTTTCTCTTATTTCTCCCTAGTTTGTGAAAACATCTCAA	3485
QY	2521	TAAAGTGCTTTAAAAAATTTTTTTTTT	2547
Db	3486	TAAAGTGCTTTCAAAAAAATTTTTTTTTT	3512

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RESULT 4
US-09-974-592-7
/ Sequence 7, Application US/09974592
/ Patent No. US20020120121A1
/ GENERAL INFORMATION:
/ APPLICANT: Korneluz, Robert G
/ APPLICANT: Mackenzie, Alexander E
/ APPLICANT: Liston, Peter
/ APPLICANT: Baird, Stephen
/ APPLICANT: Teang, Benjamin K
/ APPLICANT: Pratt, Christine
/ TITLE OF INVENTION: DETECTION AND MODULATION OF IAPs AND
/ TITLE OF INVENTION: NAIP FOR THE DIAGNOSIS AND TREATMENT OF PROLIFERATIVE
/ TITLE OF INVENTION: DISEASE
/ FILE REFERENCE: 07891/005004
/ CURRENT APPLICATION NUMBER: US/09/974,592
/ CURRENT FILING DATE: 2001-10-09
/ PRIOR APPLICATION NUMBER: US 09/617,053
/ PRIOR FILING DATE: 2000-07-14
/ PRIOR APPLICATION NUMBER: US 08/800,929
/ PRIOR FILING DATE: 1997-02-13
/ NUMBER OF SEQ ID NOS: 17
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 7
/ LENGTH: 3732
/ TYPE: DNA
/ ORGANISM: Homo sapiens
US-09-974-592-7

QY 1 TCTAAGTAGTACTTGGAAATTCAGAGAGATCTCATCTTACCTGAATATATAA CTGAGAT 60
Db 1186 TCTAAGTAGTACTTGGAAATTCAGAGAGATCTCATCTTACCTGAATATATAA CTGAGAT 1245
QY 61 AAATCCGATGAAGAAAGTGTAAATTTCTTCATAAAGATCTATCATTTGATTTCTTTTGG 120
Db 1246 AAATCCGATGAAGAAAGTGTAAATTTCTTCATAAAGATCTATCATTTGATTTCTTTTGG 1305
QY 121 TGGTAAAAATCTTAGTTCATGTGGAAGAAATTCATGTGAATGTTTAGCTATCAAA CAGC 180
Db 1306 TGGTAAAAATCTTAGTTCATGTGGAAGAAATTCATGTGAATGTTTAGCTATCAAA CAGT 1365
QY 181 ACTGTCACTTACTATGACAAAACTGCTCCAAAACATCTTTCCAGAGTCCCTGTATC 240
Db 1366 ACTGTCACTTACTATGACAAAACTGCTCCAAAACATCTTTCCAGAGTCCCTGTATC 1425
QY 241 AAAACATTAGAGATATATGGAAGATGACGATCTTGTCAAGATTGACAAACAGCAACA 300
Db 241 AAAACATTAGAGATATATGGAAGATGACGATCTTGTCAAGATTGACAAACAGCAACA 300

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Db	1426	AAAACTTAAGATAATAATGGAAGATAGCAAGATCTTGTCAAGATTGGACAAACAGCACAA	1485
Qy	301	AACAAAAAATGAAGTATGACTTTTTCCTGTGAACCTACAGAAATGTCTACATATTCAACTT	360
Db	1486	AACAAAAAATGAAGTATGACTTTTTCCTGTGAACCTACAGAAATGTCTACATATTCAACTT	1545
Qy	361	TCCTCCGCGGGGGATCCGTGTCTCAGAAAAGAGTCTGTGCTCGAGCTGGTTTATATATATCTG	420
Db	1546	TCCTCCGCGGGGGATCCGTGTCTCAGAAAAGAGTCTGTGCTCGAGCTGGTTTATATATCTG	1605
Qy	421	GTTGTGAATGACAAGAGTCAAAATGCTTCTGTTGTGGCTGTAGTCTGATATCTGAAACTAG	480
Db	1606	GTTGTGAATGACAAGAGTCAAAATGCTTCTGTTGTGGCTGTAGTCTGATATCTGAAACTAG	1665
Qy	481	GAGCACTCCATTTCAAAAACATPAAAGCTATATCTCTACTGTGATGGTTTATTCAGAAATC	540
Db	1666	GAGCACTCCATTTCAAAAACATPAAAGCTATATCTCTACTGTGATGGTTTATTCAGAAATC	1725
Qy	541	TGGTTTCAAGCTAGTCTGGGATCCACCTCTPAGAAATACGTCTCAATAGAGAAACAGTTTGG	600
Db	1726	TGGTTTCAAGCTAGTCTGGGATCCACCTCTPAGAAATACGTCTCAATAGAGAAACAGTTTGG	1785
Qy	601	CACATTCAATTATCTCCCACTTGGACATATGTAGCTTGTTCAGTGGTTCTTATCTCCAGCC	660
Db	1786	CACATTCAATTATCTCCCACTTGGACATATGTAGCTTGTTCAGTGGTTCTTATCTCCAGCC	1845
Qy	661	TTTCTCCAAACCCCTCTTAAATTCTAGAGCAGTGAAAGACATCTCTTCATCGAGAGCTAAC	720
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Qy	721	CTTACAGTTATGCAATGAGTACTGGAAGACCCAGATTTCTTACCTTACATATGTGGCAT	780
Db	1906	CTTACAGTTATGCAATGAGTACTGGAAGACCCAGATTTCTTACCTTACATATGTGGCAT	1965
Qy	781	TAACTTTTGTGTACCATCATGGAATGTGGCAGAGCTGGTTTATATATATATGAGACTGGAG	840
Db	1966	TAACTTTTGTGTACCATCATGGAATGTGGCAGAGCTGGTTTATATATATATGAGACTGGAG	2025
Qy	841	ATAGGATGAGCTGCTTGTGCTGTGTGTGGGAAGCTCAGTAACTGGGAAACCAAGAGATGATG	900
Db	2026	ATAGGATGAGCTGCTGTTGTGCTGTGTGTGGGAAGCTCAGTAACTGGGAAACCAAGAGATGATG	2085
Qy	901	CTATGTCAAGAACACCCGAGGACATTTTCCCACTGTCCATTTTGTGAAAAATTCCTTAGAAA	960
Db	2086	CTATGTCAAGAACACCCGAGGACATTTTCCCACTGTCCATTTTGTGAAAAATTCCTTAGAAA	2145
Qy	961	CTCTGAGGTTTAGCATTTCAAACTGTGAGCATGACATGACATGACATGACATGACATGACAT	1020
Db	2146	CTCTGAGGTTTAGCATTTCAAACTGTGAGCATGACATGACATGACATGACATGACATGACAT	2205
Qy	1021	TTATGTACTGGCCACTTATGTGTTCCAGTTCAAGCTGAGCAGCTTGCMAAGTGTGGTTTTT	1080
Db	2206	TTATGTACTGGCCACTTATGTGTTCCAGTTCAAGCTGAGCAGCTTGCMAAGTGTGGTTTTT	2265
Qy	1081	ATTATGTGGGATCCGGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG	1140
Db	2266	ATTATGTGGGATCCGGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG	2325
Qy	1141	GGGAATCTGAGATGATCCATGGGTGAGACATGCAAGTGTGTTCCAAAGGTGTGAGTTCT	1200
Db	2326	GGGAATCTGAGATGATCCATGGGTGAGACATGCAAGTGTGTTCCAAAGGTGTGAGTTCT	2385
Qy	1201	TGATAGCAATGAAAGGCGCAAGATTTGTGTATGATGATTTCAAGTATATATCTTCATCTTC	1260
Db	2386	TGATAGCAATGAAAGGCGCAAGATTTGTGTATGATGATTTCAAGTATATATCTTCATCTTC	2445
Qy	1261	TTGAAACAGCTGTTTCAACTTCAGATACCACTGGAGAGAAAAATGCTGACCCCAATTA	1320
Db	2446	TTGAAACAGCTGTTTCAACTTCAGATACCACTGGAGAGAAAAATGCTGACCCCAATTA	2505
Qy	1321	TTTCATTTTGGACCTGGAAGAAAGTTCTTCAGAGATGTGTCTCATGATGAATATACCTGTGG	1380
Db	2506	TTTCATTTTGGACCTGGAAGAAAGTTCTTCAGAGATGTGTCTCATGATGAATATACCTGTGG	2565

QY 1381 TTAATCGCTTGGAAATGGCTTTAATAGAGACTGGTGAACAAACAGTTCAAAGTA 1440  
DB TTAATCGCTTGGAAATGGCTTTAATAGAGACTGGTGAACAAACAGTTCAAAGTA 2625  
QY 1441 AATCTGACAACTGAGAGAACTATAAAGTAAATGATATGATGTCAGCACTTCTAA 1500  
DB AATCTGACAACTGAGAGAACTATAAAGTAAATGATATGATGTCAGCACTTCTAA 2665  
QY 1501 ATGCTGAAGTGAAG 1560  
DB ATGCTGAAGTGAAG 2745  
QY 1561 ATGATTTGCTAATTAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1620  
DB ATGATTTGCTAATTAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2805  
QY 1621 TTCTATCTGGAGATATCTTTTAAAGGCAATGTAATTAATTAATTAATTAATTA 1680  
DB TTCTATCTGGAGATATCTTTTAAAGGCAATGTAATTAATTAATTAATTAATTA 2865  
QY 1681 TTAACAAAG 1740  
DB TTAACAAAG 2925  
QY 1741 AAGGAAATGCTGGCGGCAACATCTTCAAAAATGCTGTAAGAAATTAATTAAT 1800  
DB AAGGAAATGCTGGCGGCAACATCTTCAAAAATGCTGTAAGAAATTAATTAAT 2985  
QY 1801 ATAGAATCTTAATTTGAGATGAAGATGAAGATGAAGATGAAGATGAAGATGA 1860  
DB ATAGAATCTTAATTTGAGATGAAGATGAAGATGAAGATGAAGATGAAGATGA 3045  
QY 1861 TGTCACGTGAAG 1920  
DB TGTCACGTGAAG 3105  
QY 1921 ACAAG 1980  
DB ACAAG 3165  
QY 1981 CCCCTTCTAAG 2040  
DB CCCCTTCTAAG 3225  
QY 2041 TTCTCTTAAAG 2100  
DB TTCTCTTAAAG 3285  
QY 2101 GTTGAACACTTGAAGCAGTCTAAGTAAAGAGAGAGAGAGAGAGAGAGAGAG 2160  
DB GTTGAACACTTGAAGCAGTCTAAGTAAAGAGAGAGAGAGAGAGAGAGAGAGAG 3345  
QY 2161 TTCAATGTTCAAGTCTGTTTGTGTAATTAATTAATTAATTAATTAATTAAT 2220  
DB TTCAATGTTCAAGTCTGTTTGTGTAATTAATTAATTAATTAATTAATTAAT 3405  
QY 2221 TTTAATCTTAATCTGTTTAAACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2280  
DB TTTAATCTTAATCTGTTTAAACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3465  
QY 2281 GTATGTTGTAAG 2340  
DB GTATGTTGTAAG 3525  
QY 2341 ATTGTTGTTCTTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2400  
DB ATTGTTGTTCTTCAAG 3585  
QY 2401 CAG 2460  
DB CAG 3545  
QY 3586 CAG 3645

QY 2461 GTGTTTAAATTAAGATTTTCTTATTTCTCCCTAGTTTGGAGAAACATCTCAA 2520  
DB GTGTTTAAATTAAGATTTTCTTATTTCTCCCTAGTTTGGAGAAACATCTCAA 3705  
QY 2521 TTAAGGCTTTAAATTAAGATTTTCTTATTTCTCCCTAGTTTGGAGAAACAT 2547  
DB TTAAGGCTTTAAATTAAGATTTTCTTATTTCTCCCTAGTTTGGAGAAACAT 3732

RESULT 5  
US-10-207-655-199  
; Sequence 199, Application US/10207655  
; Publication No. US20030118592A1  
; GENERAL INFORMATION:  
; APPLICANT: Ledbetter, Jeffrey A.  
; APPLICANT: Hayden-Ledbetter, Marsha S.  
; TITLE OF INVENTION: BINDING DOMAIN-IMMUNOGLOBULIN FUSION PROTEINS  
; FILE REFERENCE: 390069.401C1  
; CURRENT APPLICATION NUMBER: US/10/207, 655  
; NUMBER OF SEQ ID NOS: 426  
; SOFTWARE: PatentIn version 3.0  
; SEQ ID NO 199  
; LENGTH: 2531  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
US-10-207-655-199

Query Match 97.8%; Score 2531; DB 14; Length 2531;  
Best Local Similarity 100.0%; Pred. No. 0;  
Matches 2531; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCTAAGTATGATCTTGAAGATTTCAAGAGAGATCTCACTCACTGAATATTAATGAGAT 60  
DB 1 TCTAAGTATGATCTTGAAGATTTCAAGAGAGATCTCACTCACTGAATATTAATGAGAT 60  
QY 61 AAATCCAGTAAAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 120  
DB 61 AAATCCAGTAAAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 120  
QY 121 TGGTAAATTAATCTAAGTATGATGATGATGATGATGATGATGATGATGATGATGAT 180  
DB 121 TGGTAAATTAATCTAAGTATGATGATGATGATGATGATGATGATGATGATGATGAT 180  
QY 181 ACTGCACTCACTCACTCACTCACTCACTCACTCACTCACTCACTCACTCACTCACT 240  
DB 181 ACTGCACTCACTCACTCACTCACTCACTCACTCACTCACTCACTCACTCACTCACT 240  
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QY 301 AAACAAATTAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360  
DB 301 AAACAAATTAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 360  
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QY 481 GAGACAGTCTTATTAAG 540  
DB 481 GAGACAGTCTTATTAAG 540  
QY 541 TGGTTTCACTAGTCTGAGATCACTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600  
DB 541 TGGTTTCACTAGTCTGAGATCACTCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 600  
QY 601 CACATTCATTAATCTCCACCTTGAACATAGTAGCTTTGTCAGTGGTTCTTAATCCAGCC 660



Db 601 CACATTCATTATTCCTCCACCTTGGAAACATGTAAGCTTGTCACTGGTCTTACTTCCAGCC 660  
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Db 661 TTTCTCCAAACCTCTTAAATCTAGAGCAGTTGAAGACATCTCTTACGAGAGCTAAC 720  
Qy 721 CCTACGTTATGAAATGAGTACGAAAGAGCCAGATTTCTTACCTACATATGTGGCCAT 780  
Db 721 CCTACGTTATGAAATGAGTACGAAAGAGCCAGATTTCTTACCTACATATGTGGCCAT 780  
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Db 1021 TTAATGACTGGCANTAGTGTTCAGTTCAAGCTGAGCAGCTTGGAAAGTGTGTTTT 1080  
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Db 1141 GGGATCTGAGAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1200  
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Db 1201 TGAATGAGTGAAGAGCCAGAGCTTTGTTGATGATGATGATGATGATGATGATGATG 1260  
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Db 1261 TTGAACAGCTGTGTCTCACTTCACTTCACTTCACTTCACTTCACTTCACTTCACTT 1320  
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Db 1321 TTCAATTTGGAAGCTGAGAAAGTTCTTCAAGAGATGCTGATGATGATGATGATGATG 1380  
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Db 1381 TTAATCTGCTTGAAGATGAGGCTTTATATAGAGCTGCTGTAACAAAGTCAAAAGTA 1440  
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Db 1501 ATGCTGAGATGAGAAAG 1560  
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Db 1561 ATGATTTGCTAATTAATTCGAGAGACAGATGAGCTCTTCAACAAATGACATGTGTG 1620  
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Db 1621 TTGCTATCCGAGATTAATCTTTAAAGCCAAATGTAATTAATTAATTAATTAATTAAT 1680  
Qy 1681 TTAACAAAAAACAAGATACCTTTACAGCGAGAGAGATGATGATGATGATGATGATGAT 1740  
Db 1681 TTAACAAAAAACAAGATACCTTTACAGCGAGAGAGATGATGATGATGATGATGATGAT 1740

Db 1681 TTAACAAAAAACAAGATACCTTTACAGCGAGAGAGATGATGATGATGATGATGATG 1740  
Qy 1741 AAGAAATGCTGGCCCAACATCTTCAAAAAGTGTCTTAAAGAAATGACCTGATCTGT 1800  
Db 1741 AAGAAATGCTGGCCCAACATCTTCAAAAAGTGTCTTAAAGAAATGACCTGATCTGT 1800  
Qy 1801 ATTAAGATTAATTTGTGATGAATATGAATATATATATATATATATATATATATATAT 1860  
Db 1801 ATTAAGATTAATTTGTGATGAATATGAATATATATATATATATATATATATATATAT 1860  
Qy 1861 TGTCACTGAGAGACAAATGAGAGGTTGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1920  
Db 1861 TGTCACTGAGAGACAAATGAGAGGTTGCAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1920  
Qy 1921 ACAAAGAGTTCTGTGTATTAATTCCTGTGTGATCTGTGTGATGATGATGATGATGATG 1980  
Db 1921 ACAAAGAGTTCTGTGTATTAATTCCTGTGTGATCTGTGTGATGATGATGATGATGATG 1980  
Qy 1981 CCCCTTCTTAAGAAATGAGAGGCTTATGAGAGGATGATGATGATGATGATGATGATG 2040  
Db 1981 CCCCTTCTTAAGAAATGAGAGGCTTATGAGAGGATGATGATGATGATGATGATGATG 2040  
Qy 2041 TTTCTCTTAAGAAATGAGAGGCTTATGAGAGGATGATGATGATGATGATGATGATGAT 2100  
Db 2041 TTTCTCTTAAGAAATGAGAGGCTTATGAGAGGATGATGATGATGATGATGATGATGAT 2100  
Qy 2101 GTTGAACACTTGAACCATCTTAAGTAAAGAGAAATATGAGATTTTCAATTAAGTACA 2160  
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Qy 2161 TTGATGTTCTATGCTGCTTGTGTGATGATGATGATGATGATGATGATGATGATGAT 2220  
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Qy 2221 TTTAATCTTAATCTGTTATTTTAAAGGAGATGATGATGATGATGATGATGATGATGAT 2280  
Db 2221 TTTAATCTTAATCTGTTATTTTAAAGGAGATGATGATGATGATGATGATGATGATGAT 2280  
Qy 2281 GTATGTGATCTTAAGAGAGATGATGATGATGATGATGATGATGATGATGATGATG 2340  
Db 2281 GTATGTGATCTTAAGAGAGATGATGATGATGATGATGATGATGATGATGATGATG 2340  
Qy 2341 ATTTGTGTTCTTCAAGAGCTTGAATGATGATGATGATGATGATGATGATGATGATG 2400  
Db 2341 ATTTGTGTTCTTCAAGAGCTTGAATGATGATGATGATGATGATGATGATGATGATG 2400  
Qy 2401 CAGAGACTCTGAGATCATCAGATATGAGTGTGAGAGAGAGAGAGAGAGAGAGAGAG 2460  
Db 2401 CAGAGACTCTGAGATCATCAGATATGAGTGTGAGAGAGAGAGAGAGAGAGAGAGAG 2460  
Qy 2461 GTGTTTAAATTAAGAGATTTTCTGTTATTTCTCCCTAGTTGTGAGAAACATCTCAA 2520  
Db 2461 GTGTTTAAATTAAGAGATTTTCTGTTATTTCTCCCTAGTTGTGAGAAACATCTCAA 2520  
Qy 2521 TAAAGTCTTT 2531  
Db 2521 TAAAGTCTTT 2531

RESULT 6  
US-10-153-668-337  
; Sequence 337, Application US/10153668  
; Publication No. US20030092616A1  
; GENERAL INFORMATION:  
; APPLICANT: HONDA, Goichi  
; APPLICANT: MATSUDA, Akio  
; APPLICANT: MURAMATSU, Shuji  
; APPLICANT: ISHIZAMA, Kenya  
; TITLE OF INVENTION: STATE Activating Gene  
; FILE REFERENCE: 1254-0207P  
; CURRENT APPLICATION NUMBER: US/10/153,668  
; CURRENT FILING DATE: 2002-05-24  
; PRIOR APPLICATION NUMBER: US 60/293,172









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ATTORNEY/AGENT INFORMATION:
NAME: FERRARO, GREGORY D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-387
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1435 BASE PAIRS
TYPE: NUCLEIC ACID
STRANDEDNESS: SINGLE
TOPOLOGY: LINEAR
MOLECULE TYPE: CDNA
US-08-464-588-1

Query Match      55.2%; Score 1430.2; DB 8; Length 1435;
Best Local Similarity 99.8%; Pred. No. 2.5e-291;
Matches 1432; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 726 AGTATGCAATGAGTACTGAAAGAGCCAGATTCTTACCTACATATGTGGCCATTACT 785
DB 1 AGTTATGCAATGAGTACTGAAAGAGCCAGATTCTTACCTACATATGTGGCCATTACC 60
QY 786 TTTTGTCCACCATGAGATTGGCAAGAGCTGTTTATATATATAGAACCTGAGATAGG 845
DB 61 TTTTGTCCACCATGAGATTGGCAAGAGCTGTTTATATATATAGAACCTGAGATAGG 120
QY 846 GTAGCCCTGTTGCTGCTGTGTGGAGAGCTGATGTAATGGAAACCAAGATGATGCTATG 905
DB 121 GTAGCCCTGTTGCTGCTGTGTGGAGAGCTGATGTAATGGAAACCAAGATGATGCTATG 180
QY 906 TCAGAAACCGAGAGGCAATTTTCCCACTGTCATTTTGGAAATTTCTTAGAAACTCTG 965
DB 181 TCAGAAACCGAGAGGCAATTTTCCCACTGTCATTTTGGAAATTTCTTAGAAACTCTG 240
QY 966 AGGTTTGAATTTCAAACTGAGCATGACACATGCACTGCAATGAGAAACATTATG 1025
DB 241 AGGTTTGAATTTCAAACTGAGCATGACACATGCACTGCAATGAGAAACATTATG 300
QY 1026 TACGCGCATCTACTGTTCAGCTTCAAGCTGAGAGAGCTTGAATGTGCTGTTTATAT 1085
DB 301 TACGCGCATCTACTGTTCAGCTTCAAGCTGAGAGAGCTTGAATGTGCTGTTTATAT 360
QY 1086 GTGGGTGCAATGATGATGTCATTAATGCTTTTGTGTAGTGGTGGCTTGAAGTGGGAA 1145
DB 361 GTGGGTGCAATGATGATGTCATTAATGCTTTTGTGTAGTGGTGGCTTGAAGTGGGAA 420
QY 1146 TCTGGAATGATTCATGAGGTGAGAAATGCAAGTGGTTCAGAGGTGTGAGTCTTGATA 1205
DB 421 TCTGGAATGATTCATGAGGTGAGAAATGCAAGTGGTTCAGAGGTGTGAGTCTTGATA 480
QY 1206 CGAATGAAAGCCCAAGATTTGTGATGATGATTCAGATGATGATTCCTCATCTTCTTGAA 1265
DB 481 CGAATGAAAGCCCAAGATTTGTGATGATGATTCAGATGATGATTCCTCATCTTCTTGAA 540
QY 1266 CAGCTGTGTGCACTTCAGATACCACTGAGAGAAATGCTGACCAACCAATTAATTCAT 1325
DB 541 CAGCTGTGTGCACTTCAGATACCACTGAGAGAAATGCTGACCAACCAATTAATTCAT 600
QY 1326 TTTGAGCCTGAGAAAGTCTTCTCAAGAAATGCTGTGATGATGATTAACCTGTGTGAAA 1385
DB 601 TTTGAGCCTGAGAAAGTCTTCTCAAGAAATGCTGTGATGATGATTAACCTGTGTGAAA 660
QY 1386 TCTGCTTGGAAATGGGCTTTAATAGAGACCTGTGTGAAACAAAGTTCAAAGTAAATC 1445
DB 661 TCTGCTTGGAAATGGGCTTTAATAGAGACCTGTGTGAAACAAAGTTCAAAGTAAATC 720
QY 1446 CTGCAACTGAGAGAACTATATAACAGTTATATATATGTCAGACCTCTTAATGCT 1505
DB 721 CTGCAACTGAGAGAACTATATAACAGTTATATATATGTCAGACCTCTTAATGCT 780
QY 1506 GAAATGAAAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1565

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DB 781 GAAATGAAAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 840
QY 1566 TTGTCAATTAATGGAAGAACAGATGGCTCTTTCACCAATGTGACATGTGCTTCT 1625
DB 841 TTGTCAATTAATGGAAGAACAGATGGCTCTTTCACCAATGTGACATGTGCTTCT 900
QY 1626 ATCTGGATTAATCTTTTAAAGGCCAATGTATTAATTAACAGAGACATATATTA 1685
DB 901 ATCTGGATTAATCTTTTAAAGGCCAATGTATTAATTAACAGAGACATATATTA 1685
QY 1686 CAAAAACACAGATACCTTTACAGAGAGAACTGATGATCCATTTGGTTAAAGCA 1745
DB 961 CAAAAACACAGATACCTTTACAGAGAGAACTGATGATCCATTTGGTTAAAGCA 1800
QY 1746 AATGCTGGGCGCAACCTTCAAAAACCTGCTAAAGAAATGACCTACATGATTAAG 1805
DB 1021 AATGCTGGGCGCAACCTTCAAAAACCTGCTAAAGAAATGACCTACATGATTAAG 1805
QY 1806 AACTTATTTGTGATTAAGATATGATATATTCACACAGAGATGTTCAAGTCTGCA 1865
DB 1081 AACTTATTTGTGATTAAGATATGATATATTCACACAGAGATGTTCAAGTCTGCA 1925
QY 1866 CTGGAAGAACATTTGAGAGGTTGCAAGAGAACTGTTAAATGTTGATGACAAA 1925
DB 1141 CTGGAAGAACATTTGAGAGGTTGCAAGAGAACTGTTAAATGTTGATGACAAA 1985
QY 1926 GAAGTTTCTGTGATTAATTTCTGTTGTCATCTGATGATGATGATGATGATGAT 1985
DB 1201 GAAGTTTCTGTGATTAATTTCTGTTGTCATCTGATGATGATGATGATGATGAT 2045
QY 1986 TCTCTAAGAAATAGCCCTATTTGCAAGGATATATCAAGGATCTGTGATATTTCTC 2045
DB 1261 TCTCTAAGAAATAGCCCTATTTGCAAGGATATATCAAGGATCTGTGATATTTCTC 2105
QY 2046 TCTTAAAGAAATATGCTATATTTTAACTGATATTAAGGCTTTTAAATATGTTGA 2105
DB 1321 TCTTAAAGAAATATGCTATATTTTAACTGATATTAAGGCTTTTAAATATGTTGA 2160
QY 2106 ACACCTGAAGCCCTCAAGATTAAGAAAGGATATGATGATTTTCAATAGTAAACA 2160
DB 1381 ACACCTGAAGCCCTCAAGATTAAGAAAGGATATGATGATTTTCAATAGTAAACA 2160

RESULT 9
US-10-323-643-1
Sequence 1, Application US/10323643
Publication No. US20030108552A1
GENERAL INFORMATION:
APPLICANT: He, et al.
TITLE OF INVENTION: Human Inhibitor of Apoptosis Gene 1
FILE REFERENCE: PFI65PDI
CURRENT APPLICATION NUMBER: US/10/323,643
CURRENT FILING DATE: 2002-12-20
PRIOR APPLICATION NUMBER: 08/464,588
PRIOR FILING DATE: 1995-06-05
PRIOR APPLICATION NUMBER: PCT/US95/05922
PRIOR FILING DATE: 1995-05-11
NUMBER OF SEQ ID NOS: 10
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1
LENGTH: 1435
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (10)..(1326)
OTHER INFORMATION:
US-10-323-643-1

Query Match      55.2%; Score 1430.2; DB 14; Length 1435;
Best Local Similarity 99.8%; Pred. No. 2.5e-291;
Matches 1432; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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QY 726 AGTTATGCAATGAGTACTGAGAGAGCCAGATTTCTTACCTACCATATGTGGCCATTAACT 785  
 DB 1 AGTATGCAATGAGTACTGAGAGAGCCAGATTTCTTACCTACCATATGTGGCCATTAACT 60  
 QY 786 TTTTGTGCAACATGAGATTTGSCAGAGAGCTGGTTTTATATATATGAGACCTGGAGATGAG 845  
 DB 61 TTTTGTGCAACATGAGATTTGSCAGAGAGCTGGTTTTATATATATGAGACCTGGAGATGAG 120  
 QY 846 GTAGCTGCTTTGCTGTGTGTGTGAGAGCTCAGTAACTGGAACCAAGAGATGATCTATG 905  
 DB 121 GTAGCTGCTTTGCTGTGTGTGTGAGAGCTCAGTAACTGGAACCAAGAGATGATCTATG 180  
 QY 906 TCAGAACACCGGAGGATTTTCCCACTGTCTCATTTTGGAAAATTTCTAGAAAATCTGTG 965  
 DB 181 TCAGAACACCGGAGGATTTTCCCACTGTCTCATTTTGGAAAATTTCTAGAAAATCTGTG 240  
 QY 966 AGTTATGCAATGAGTACTGAGAGAGCCAGATTTCTTACCTACCATATGTGGCCATTAACT 1025  
 DB 241 AGTTATGCAATGAGTACTGAGAGAGCCAGATTTCTTACCTACCATATGTGGCCATTAACT 300  
 QY 1026 TACTGGCCATCTAGTGTTCAGATTCAAGCTGAGCAGCTTGCAAGTGTGTGTATAT 1085  
 DB 301 TACTGGCCATCTAGTGTTCAGATTCAAGCTGAGCAGCTTGCAAGTGTGTGTATAT 360  
 QY 1086 GTGGGTGCAATGATGATGTCAAATGCTTTTGTGTGATGTGGCTTGAGGTGGGA 1145  
 DB 361 GTGGGTGCAATGATGATGTCAAATGCTTTTGTGTGATGTGGCTTGAGGTGGGA 420  
 QY 1146 TCTGGAGATGATGATGTCAAATGCTTTTGTGTGATGTGGCTTGAGGTGGGA 1205  
 DB 421 TCTGGAGATGATGATGTCAAATGCTTTTGTGTGATGTGGCTTGAGGTGGGA 480  
 QY 1206 CGAATGAAAGGCCAAGAGCTTTGTGTGATGATTCAGAGTAAATCTCATCTCTTGA 1265  
 DB 481 CGAATGAAAGGCCAAGAGCTTTGTGTGATGATTCAGAGTAAATCTCATCTCTTGA 540  
 QY 1266 CAGCTGTGTCACTTCAGATACCACTGAGAGAGAAAATGCTGACCCCAATTATTCAT 1335  
 DB 541 CAGCTGTGTCACTTCAGATACCACTGAGAGAGAAAATGCTGACCCCAATTATTCAT 600  
 QY 1336 TTTGACCTGGAGAGAGTCTTCAAGAGAGCTGTGATGATGATGATGATGATGATGATGAT 1385  
 DB 601 TTTGACCTGGAGAGAGTCTTCAAGAGAGCTGTGATGATGATGATGATGATGATGATGAT 660  
 QY 1386 TCTGCTTGTGAATGAGCTTTATATAGAGACCTGTGTGAACCAAGCTTCAAGTAAATC 1445  
 DB 661 TCTGCTTGTGAATGAGCTTTATATAGAGACCTGTGTGAACCAAGCTTCAAGTAAATC 720  
 QY 1446 CTGACAACTGGAGAGAGCTATATAAACAGTTAATGATGATGATGATGATGATGATGAT 1505  
 DB 721 CTGACAACTGGAGAGAGCTATATAAACAGTTAATGATGATGATGATGATGATGATGAT 780  
 QY 1506 GAAATGAAAAAGAT 1565  
 DB 781 GAAATGAAAAAGAT 840  
 QY 1566 TTTGCTATTAATTCGAGAGAGAGAGATGCTCTTTCAACATGATGATGATGATGATGAT 1625  
 DB 841 TTTGCTATTAATTCGAGAGAGAGAGATGCTCTTTCAACATGATGATGATGATGATGAT 900  
 QY 1626 ATCTGTGATTAATCTTTTAAAGGCCAATGATATATATATATATATATATATATAT 1685  
 DB 901 ATCTGTGATTAATCTTTTAAAGGCCAATGATATATATATATATATATATATATATAT 960  
 QY 1686 CAAAAAACAAGATACCTTTTCAAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1745  
 DB 961 CAAAAAACAAGATACCTTTTCAAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1020  
 QY 1746 AATGCTGCGGCAACATCTTCAAAAACTGTCTAAAGAAATGATGATGATGATGATGATGAT 1805  
 DB 1021 AATGCTGCGGCAACATCTTCAAAAACTGTCTAAAGAAATGATGATGATGATGATGATGAT 1080

QY 1806 AACTTATTTGTGATAGATATGATATATATATATATATATATATATATATATATATAT 1865  
 DB 1081 AACTTATTTGTGATAGATATGATATATATATATATATATATATATATATATATATATAT 1140  
 QY 1866 CTGAGAGAACTTGAAGAGAGGTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1925  
 DB 1141 CTGAGAGAACTTGAAGAGAGGTTCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAT 1200  
 QY 1926 GAAGTTCTGTGATATTAATCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1985  
 DB 1201 GAAGTTCTGTGATATTAATCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1260  
 QY 1986 TCTCTAAGAAAAATCCCTATTTGCAAGGAGATATATATATATATATATATATATATAT 2045  
 DB 1261 TCTCTAAGAAAAATCCCTATTTGCAAGGAGATATATATATATATATATATATATATAT 1320  
 QY 2046 TCTTAAAGAAAAATAGCTAT 2105  
 DB 1321 TCTTAAAGAAAAATAGCTAT 1380  
 QY 2106 AACCTGAGCCATCTTAAAGTAAAGGAGATATATATATATATATATATATATATATAT 2160  
 DB 1381 AACCTGAGCCATCTTAAAGTAAAGGAGATATATATATATATATATATATATATATAT 1435

RESULT 10  
 US-10-232-286-13  
 : Sequence 13, Application US/10232286  
 : Publication No. US20030143579A1  
 : GENERAL INFORMATION:  
 : APPLICANT: Rothe, Mike  
 : Goedel, David V  
 : TITLE OF INVENTION: INHIBITORS OF APOPTOSIS  
 : NUMBER OF SEQUENCES: 14  
 : CORRESPONDENCE ADDRESS:  
 : ADDRESSEE: FLEHR, HOBBACH, TEST, ALBRITTON & HERBERT  
 : STREET: 4 Embarcadero Center, Suite 3400  
 : CITY: San Francisco  
 : STATE: California  
 : COUNTRY: USA  
 : ZIP: 94111  
 : COMPUTER READABLE FORM:  
 : MEDIUM TYPE: Floppy disk  
 : COMPUTER: IBM PC compatible  
 : OPERATING SYSTEM: PC-DOS/MS-DOS  
 : SOFTWARE: Patent Release #1.0, Version #1.30  
 : CURRENT APPLICATION DATA:  
 : APPLICATION NUMBER: US/10/232,286  
 : FILING DATE: 30-Aug-2002  
 : CLASSIFICATION: <Unknown>  
 : PRIOR APPLICATION DATA:  
 : APPLICATION NUMBER: US/08/569,749  
 : FILING DATE: <Unknown>  
 : ATTORNEY/AGENT INFORMATION:  
 : NAME: Brezner, David J.  
 : REGISTRATION NUMBER: 24,774  
 : REFERENCE/DOCKET NUMBER: A-62464/DJB  
 : TELECOMMUNICATION INFORMATION:  
 : TELEPHONE: (415)781-1989  
 : TELEFAX: (415)398-3249  
 : INFORMATION FOR SEQ ID NO: 13:  
 : SEQUENCE CHARACTERISTICS:  
 : LENGTH: 2862 base pairs  
 : TYPE: nucleic acid  
 : STRANDEDNESS: single  
 : TOPOLOGY: linear  
 : MOLECULAR TYPE: cDNA  
 : SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
 US-10-232-286-13

Query Match 52.0%; Score 1345.2; DB 12; Length 2862;  
 Best Local Similarity 76.6%; Pred. No. 2.9e-273;  
 Matches 1844; Conservative 0; Mismatches 483; Indels 79; Gaps 13;

QY 140 TGTGAAGAAATTTCAATGATGATGTTTATGCTATCAACAGCACTGTCACCTACATGCA 139  
DB 420 TGTGAGAAATCTTCATCTGGAAGTTTAAAGCGGTCAAGAAATACATAT--ACTACTCATGGA 477  
QY 200 CAAAACCTGCTCCCAAGACTTTTCCAGGTCCTGCTATCAAAACCTTAAGATTAAT 259  
DB 478 CAAAACCTGCTCCCAAGACTGCGCCAAAGTACTTACCAAAAAACCTTAAGATTAAT 537  
QY 260 GGAAGATGACGATCTTGTCAATGGAACAAACAGCAACAAACAAATGAAGTATGA 319  
DB 538 GGAAGATGACGATCTTGTCAATGGAACAAACAGCAACAAACAAATGAAGTATGA 597  
QY 320 CTTTTCCTGTAATCTTACAGAAATGTTACATATTCATCTTCCCGCGGGTGCCTGT 379  
DB 598 CTTTTCCTGTAATCTTACAGAAATGTTACATATTCATCTTCCCGCGGGTGCCTGT 657  
QY 380 CTGAGAAAGAGCTTGTGCTGCTGCTGCTTATTAATACAGGTTGAATGAAGGTCGA 439  
DB 658 CTGAGAAAGAGCTTGTGCTGCTGCTGCTTATTAATACAGGTTGAATGAAGGTCGA 717  
QY 440 ATGCTTCTGTTGAGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGAT 499  
DB 718 GTGCTTCTGTTGAGCTGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTGAT 777  
QY 500 GCAATAACAGCTATATCTAGCTGATGCTGATGCTGATGCTGATGCTGATGCTGAT 559  
DB 778 GCAACAGAGCTTATCTCCAGCTGAGCTTGTATCAGACTCTGCTTCAACGAGTCTGCA 837  
QY 560 ATCCACTCTTAATAATCTCTCAATGAGAAACAGTTTGCATCTATCTCCAC 619  
DB 838 GTCTCATCTTAATAATCTCTCAATGAGAAACAGTTTGCATCTATCTCCAC 897  
QY 620 CTGGAACATAGTATGTTGATGAGTGTCTTACTCCAGCTTCTTCCAAACCTCTTAA 679  
DB 898 ACAGAG-----GTGCAATCACTCCAACTGTGCTCTGAGCCCTCTTAA 939  
QY 680 TTCTAGAGAGTTGAAGACATCTTCTGATGAGAGCTAACTCCCTACGTTATGCAATGAG 739  
DB 940 TTCTAGAGAGTTGAAGACATCTTCTGATGAGAGCTAACTCCCTACGTTATGCAATGAG 996  
QY 740 TACTGAAGAGCAGATTTCTTACCTACCAATGCTGAGCTTAACTTTTTCGACATC 799  
DB 997 TACAGAAAGAGCAGATTTCTTACCTACCAATGCTGAGCTTAACTTTTTCGACATC 1056  
QY 800 AGAATTGCAAGAGCTGTTTATTAATATAGAGCTGAGATGAGGTAGCTGCTTGC 859  
DB 1057 AGAGCTGCAAGAGCTGTTTATTAATATAGAGCTGAGATGAGGTAGCTGCTTGC 1116  
QY 860 CTGTGTGAGAGCTGATGATCTGAGAACCAAGATGATGCTATGTCAGAACACCGAG 919  
DB 1117 CTGTGTGAGAGCTGATGATCTGAGAACCAAGATGATGCTATGTCAGAACACCGAG 1176  
QY 920 GCATTTTCCCACTGCTCAATTTTGAATTCCTAGAAACCTGAGGTTTGAACATTC 979  
DB 1177 ACATTTTCCCACTGCTCAATTTTGAATTCCTAGAAACCTGAGGTTTGAATTC 1236  
QY 980 AATCTGAGCATGACATGACATGACATGACATGACATGACATGACATGACATGAC 1039  
DB 1237 AATCTGAGCATGACATGACATGACATGACATGACATGACATGACATGACATGAC 1296  
QY 1040 TGTTCAGTTCAAGCTGAGAGCTTGAAGTCTGTTTATTAATGTTGAGTCCAGTGA 1099  
DB 1297 TGTTCAGTTCAAGCTGAGAGCTTGAAGTCTGTTTATTAATGTTGAGTCCAGTGA 1356  
QY 1100 TGAATCAATGCTTTGTTGATGATGATGATGATGATGATGATGATGATGATGATG 1159  
DB 1357 TGAATCAATGCTTTGTTGATGATGATGATGATGATGATGATGATGATGATGATG 1416  
QY 1160 ATGGATGAAACATGCAAGTGTGTTCCAAAGTGTGATGCTTGAATGAAAGGCA 1219  
DB 1417 CTGGATGAAACATGCAAGTGTGTTCCAAAGTGTGATGCTTGAATGAAAGGCTCA 1476

QY 1220 AGAGTTGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1279  
DB 1477 GAGTTGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1536  
QY 1280 TTCAATACACTGAG 1333  
DB 1537 TTCAATACACTGAG 1596  
QY 1334 TGAAGAAAGTTCTTCAAGAGATGCTGCTGATGATGATGATGATGATGATGATGATG 1393  
DB 1597 TGAAGAAAG---TTCAAGAGATGCTGCTGATGATGATGATGATGATGATGATGATG 1653  
QY 1394 GGAATGAGCTTAAATGAGAGCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1453  
DB 1654 GGAATGAGCTTAAATGAGAGCTGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1713  
QY 1454 TGAAGAAAGTTCTTCAAGAGATGCTGCTGATGATGATGATGATGATGATGATGATG 1513  
DB 1714 TGAAGAAAGTTCTTCAAGAGATGCTGCTGATGATGATGATGATGATGATGATGATG 1773  
QY 1514 AAAAAAG 1573  
DB 1774 GAG 1833  
QY 1574 AATTCGAAAG 1633  
DB 1834 AATTCGAAAG 1693  
QY 1634 TAACTTTTAAAG 1693  
DB 1894 TAACTTTTAAAG 1953  
QY 1694 ACAGATACCTTTTCAAG 1753  
DB 1954 ACAGATACCTTTTCAAG 2013  
QY 1754 GGCCTAATCTTCAAAACCTGCTTAAAGAAATGATGATGATGATGATGATGATGATGAT 1813  
DB 2014 AGCCAAATCTTCAAAACCTGCTTAAAGAAATGATGATGATGATGATGATGATGATG 2073  
QY 1814 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1873  
DB 2074 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2133  
QY 1874 ACATTTGAG 1933  
DB 2134 GAGTTGAG 2193  
QY 1934 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1993  
DB 2194 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2253  
QY 1994 AAAAAAG 2053  
DB 2254 GAG 2211  
QY 2054 AAAAAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2113  
DB 2312 -----GTGAAGAAATGCTGAAGATGATGATGATGATGATGATGATGATGATG 2347  
QY 2114 AGCATCTAAAGTAAAGAAAGAAATGAGTTTCAATTAAGTAAATGATGATGATGATG 2173  
DB 2348 AGCTGTCAGAAACAAAGAAAGAAATGAGTTTCAATTAAGTAAATGATGATGATGATG 2404  
QY 2174 CTGCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2233  
DB 2405 CTGCTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2464  
QY 2234 TGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2293  
DB 2465 TG-----TTGCAAG 2518  
QY 2294 AGGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2353







QY	715	CTAACCCCTCAAGTATATGCAATGAGATATCTGAAAGAGCCAGATTTTCTTACCTACCAATAGT	774
Db	579	TGGAATCCCTGACGATATGATCCATGAGTACAGAAAGAGGCCAGATTTTTCATTACAGTATGT	638
QY	775	GGCCATTACTTTTGTTCACCATCAGAAATGGCAAGACTGTGTTTATTATATATAGAC	834
Db	639	GGCCTTTAAAGTTTCTGTACACAGAGAGCTGGCCAGAGCTGGCTTCTATTATACATAGGC	698
QY	835	CTGGAAGATAGGGTAGCCTGTCTTGTGCTGTGGTGGAGCTCAGTACTGGGAACCAAGG	894
Db	699	CTGGAGACAGGGTGGCCTGTGTTTGTCTGTGGTGGAAACTGAGCAATCGGAAACCAAGG	758
QY	895	ATGATGCAATGTCAGAACACCGGAGGCAATTTTCCCACTGTCCATTTTGGAAAAATTC	954
Db	759	ATTATGCTATGTCAAGACACCGGACAAATTTTCCCACTGTCCATTTTGGAAAAATTC	818
QY	955	TAGAAACTCTGAGGTTTAGCATTTCAATCTGAGCATCAGACATGCACTCGATATGA	1014
Db	819	CAGAAACACAGAGGTTTATGTAATATCAATCTTAGATACAGACACTCTGTGATTTGA	878
QY	1015	GAACTTATATGTACTGGCCATCTAGTGTTCAGTTCAAGCTTGAGCAGCTTGCAAGTGTG	1074
Db	879	GGACATTTCTGTACTGGGCAACCTAGTGTTCCTGTTCAGCCGAGACGTTTCAAGTGTG	938
QY	1075	GTTTATTATATGTGGGTGGCAATGATATGATCAATGCTTTTGTGTTGATATGCTGTGTA	1134
Db	939	GATTTCTATTAGCTGTGATGCAATGATGATGATGATGCTTGTGTTGATGATGCTGTGTA	998
QY	1135	GGTGTGGGAATCTGAGAGATGATCCATGGGTAGAAACATGCCAAGTGTTTCCAAGTGTG	1194
Db	999	GATGTGGGAACCTGGAGATGACCCCTGGATAGAAACAGCCCAATGTGTTTCCAAGTGTG	1058
QY	1195	AGTTCCTGATACGAATGAAGGCCCAAGGTTTGTGATGAAATTCAGAGTATATCTC	1254
Db	1059	AGTTCCTGATACGAGATGAAGGCTCAGAGGTTTGTGATGAAATTCAGAGTATATCTC	1118
QY	1255	ATCTTTTGAACAGCTGTGTTCACCTTAGATCACACTGAGGAAGAAATGCTGATCC--	1312
Db	1119	ATCTTTTGAACAGCTGTGTTCACCTTAGACACCCCAAGGAAGAAATGCTGATCCCTA	1178
QY	1313	----ACCAATTAATTCATTTTGAACCTGGAGAAAGTTCTTCAGGAAGATGCTGTCAATGATGA	1368
Db	1179	CAGAGACAGTGTGATTTTGGCCCTGAGAAAG---TTCAGGAAGATGCTGTCAATGATGA	1235
QY	1369	ATPACCTGTGTTAAATCTGCTTGGAAATGGCTTTAAATAGACCTGTGTAACAA	1428
Db	1236	GCAAGCCTGTGTTAAAGCAACCTTGGAAATGGGCTTCAGTAGAGCTGTGTAAGACGA	1295
QY	1429	CAGTTCAAAATGAATCTCTGACAACTGAGAGAACTATAAACAGTTATATATTTGTGT	1488
Db	1296	CGGTTCAAGCCGACATCTCTGGCCACTGCTGAGAACTACAGACCGTCAATATATTTGTCT	1355
QY	1489	CAGACCTCTAAATGCTGGAATGAAAAAAGAGGGAGGAGCAAGAAAAACAACCTGAG	1548
Db	1356	CAGTACTTTTAAATGCTGGAATGAGAAAGAAAGAAAGAAAGAAAGACAGACTGAG	1415
QY	1549	AAATGGCATCAGATGATTTGTCAATTAATTCGAGAGACAGATAGGCTCTCTTCAACAT	1608
Db	1416	AGATGGGATCAGGTGACTTATACCTGATTTGGGAAGAAATAGATGGCCCTCTTTCAACGT	1475
QY	1609	TGACATGTGTCTCTATCTCTGATTAATCTTTTAAAGGCACATGTAATTAATAACAGG	1668
Db	1476	TGACACATGTCTCTATCTCTGATTAATCTTTTAAAGGCACATGTAATTAATAACAGG	1535
QY	1669	AACATGATTAATTAATAACAAAAACAAGATACCTTTACAGCGAGAGAACTGATGATA	1728
Db	1536	AACATGATTAATTAATAACAAAAACAAGATACCTTTACAGCGAGAGAACTTATTGACA	1595
QY	1729	CCATTTTGGTTAAAGAAATGCTGGGCCAACATCTTCAAAAACCTGTCTAAAGAAATTG	1788
Db	1596	CCGTTTATAGTCAAGGAAATGCTGGAGCAACATCTTCAAAAACCTGTCTGAAGGAAATG	1655
QY	1789	ACTTACATGTTATAGAACTTATTTGTGAGTAAGAAATATATAGTATATTTCCACAGAG	1848

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Db      1656 ACTCACTGTAATATGAAAACCTAATTTGTGGAAAAGAAATGAATATATTCACACAGAG 1715
Qy      1849 ATGTTTCAGGTCCTGTCACCTGAGAGAACAAATTGAGAGGTGGCAAGAGAAAGAACTTTGTA 1908
Db      1716 ACGTTTCAGGCTTGTTCATTGGAAGAGCAGTTGGGAGATTACAAGAAAGAACTTGCA 1775
Qy      1909 AAGTGTGATGAGCAAGAAGATTCTGTGTGATTTATTCCTTGTGTCATCTGTAGTAT 1968
Db      1776 AAGTGTGATGAGCAGAGAGGTTTCTATGTGTGTCATTCCTGTGTGTCATCTAGTATCT 1835
Qy      1969 GCCAGGAATGTGCCCCCTCTCAAGAAATGCCCCATTTTGGACAGGGGTATTAACAAGGTA 2028
Db      1836 GCACGAATGTGCCCCCTCTCAAGGAATGTGCCCATCTGCAGGGGGACATCAAGGGA 1895
Qy      2029 CTGTTGTACATTTCTCTCTTAAAGAAAATAGTCTATATTTTAACTGCATTAAGAGT 2088
Db      1896 CTGTGGCACAATTTCTCTCATGA-----GTGAAGATGG 1929
Qy      2089 CTTTAAATATTTGTGGAACACTTGAAGCCATCTAAAGTAAAGGAATTAATGAATTTT 2148
Db      1930 TCTGAAGTATTTGTGGAACATCAGAGAGCTGCAGAACAAAGATGAATCACTGA---TTT 1986
Qy      2149 CAATTAGTACATTCATGTTCTAGTCTGCTGTGTGATCTAATATCTGTTTCTGAAGAA 2208
Db      1987 CAGCTCTTCAGCAGAGACATTTCACTCTCTTCAAGATTGATATCTGTCTTAATGAAGG 2046
Qy      2209 TGGTATCATATTTAATCTTATCTGTTTATTTTCAAGGGAAGATTATGTTGTGTA 2268
Db      2047 TAGCATTTGATATTTAAGCTTAGTCTG-----TTGAAAGGAAGAGTCTAAG-CTGTTGAG 2100
Qy      2269 CTATATATGATATGATGTGATCCTAAGGAGTAGTGTCACTGCTGTATGATCATTTTC 2328
Db      2101 CTACAGGACTGTGTCTGTTCCAGACAGAGAGTGGAGTCTGCTGTATGTC---CTTC 2156
Qy      2329 AGGAGTTACTGATTTGTTGTTCTTTCAGAAAGCTTTGAATCTAATATTAATAGTGA 2388
Db      2157 AGGACTTCTTGGGATTTGGGAATTTGGGAAAGCTTTGAATCACTGATGTGAGCTCA 2216
Qy      2389 AAGAACTGAAAACAGAACTCTGAGATTCTACAGAGTATGATGGCGAATGTCCTTTGG 2448
Db      2217 GAATTCCTGGAACAGTACTCTGTACTCAATAGA--TAGGTAACCTGTACTTCTGG 2274
Qy      2449 TGCCTTTCACTTGTGTTTAAATTAAGATTTTCT 2484
Db      2275 TGCCTTTCCAGTCTGGAATTAAGAGAGATCTGCT 2310

RESULT 13
US-09-954-456-1635
: Sequence 1635, Application US/0954456
: Patent No. US20020115057A1
: GENERAL INFORMATION:
: APPLICANT: Young, Paul
: TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Cance
: FILE REFERENCE: 689290-76
: CURRENT APPLICATION NUMBER: US/09/954,456
: CURRENT FILING DATE: 2001-09-18
: PRIOR APPLICATION NUMBER: US/60/233,617
: PRIOR FILING DATE: 2000-09-18
: PRIOR APPLICATION NUMBER: US/60/234,052
: PRIOR FILING DATE: 2000-09-20
: PRIOR APPLICATION NUMBER: US/60/234,923
: PRIOR FILING DATE: 2000-09-25
: PRIOR APPLICATION NUMBER: US/60/235,134
: PRIOR FILING DATE: 2000-09-25
: PRIOR APPLICATION NUMBER: US/60/235,637
: PRIOR FILING DATE: 2000-09-26
: PRIOR APPLICATION NUMBER: US/60/235,638
: PRIOR FILING DATE: 2000-09-26
: PRIOR APPLICATION NUMBER: US/60/235,711
: PRIOR FILING DATE: 2000-09-27

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PRIOR APPLICATION NUMBER: US/60/235,720  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: US/60/235,840  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: US/60/235,863  
PRIOR FILING DATE: 2000-09-27  
NUMBER OF SEQ ID NOS: 2276  
SOFTWARE: PatentIn version 3.0  
SEQ ID NO 1635  
LENGTH: 3076  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-954-456-1635

Query Match 44.7%; Score 1157; DB 10; Length 3076;  
Best Local Similarity 77.3%; Pred. No. 1,46-233;  
Matches 1474; Conservative 0; Mismatches 415; Indels 18; Gaps 5;

QY 170 TATCAACAGACATGTCACCTACATGACCAAACTGCTCC-----AAAGACTTT 223  
Db TATTTAACTGATTAAGCAAGCATGACCAAACTACCTCCTAGAGAAAGCTAGTC 699  
QY 224 CCAGAGTCCCTGATCAAAATTAAGATATATGAAGATGACGATCTTGACA 283  
Db CTTTCTCCCATTCATTTATGAAATATGAAAGAAAGCAATTTCTTATCAA 759  
QY 284 TTGGACAAACAG--CAACAAACAAAATGAGATGATCTTTCTGTGAACTTACAG 340  
Db TTGTGATGAAGAGCCCAACGTTTGAATGAAATGACCTTGATGATGATGATCCG 819  
QY 341 AATGTCATCAATTCATCTTCCCGCGGGGTGCTGTCAGAAAGAGTGTGCTG 400  
Db AATGTCATCAATTCATCTTCCCGCGGGGTGCTGTCAGAAAGAGTGTGCTG 879  
QY 401 TGTGCTTTTATTAATGATGATGATGATGATGATGATGATGATGATGATGAT 460  
Db TGTGCTTTTATTAATGATGATGATGATGATGATGATGATGATGATGATGAT 939  
QY 461 GCTGATTAATGAACTAGAGACAGTCTTATTAACAAAGATTAAGATTAATCTTAC 520  
Db GCTGATTAATGAACTAGAGACAGTCTTATTAACAAAGATTAAGATTAATCTTAC 999  
QY 521 CTGATGCTTATTCAGATCTGCTTACGCT--AGCTGAGATTCACCTTAAGATTA 577  
Db CTGATGCTTATTCAGATCTGCTTACGCT--AGCTGAGATTCACCTTAAGATTA 1059  
QY 578 GT---CTCAATGAGAAAGATTTGACATTCATTAATCCCACTTGGACATGATAG 634  
Db TTTTCTTCTTCAATGAGAAAGATTTGACATTCATTAATCCCACTTGGACATGATAG 1119  
QY 635 CTGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 694  
Db CTGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1120  
QY 695 AGACATCTCTTCATGAGAGACATACCTTACATGATTAATGATGATGATGATGATGAT 754  
Db AGATTTTCTGCTTGAATGAGAGATTCATGACATGATGATTAATGATGATGATGAT 1239  
QY 755 ATTGTTACCTACATATGATGATGATGATGATGATGATGATGATGATGATGATGAT 814  
Db ATTACTTACTTTTACATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1299  
QY 815 TGGTTTATTAATGAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 874  
Db AGGCTTTTATTAATGAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1359  
QY 875 CAGTAATGAGAAACAAAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 934  
Db GAGCAATGAGAAACAAAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1419  
QY 935 TCCATTTTGGAAAT--TCTTGAAGATGATGATGATGATGATGATGATGATGATGAT 991  
Db CCATTTTATGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1479

QY 992 GCAAGACATGACGCTGCAATGAAACATTTATGATGATGATGATGATGATGATGATGAT 1051  
Db GCAAGACATGACGCTGCAATGAAACATTTATGATGATGATGATGATGATGATGATGAT 1539  
QY 1052 GCCTGAGAGCTTGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1111  
Db TCTTGAAGAGCTTGAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1599  
QY 1112 CTTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1171  
Db CTTTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1659  
QY 1172 TGCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1231  
Db TGCAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1719  
QY 1232 TGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1291  
Db TGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1779  
QY 1292 TGAGAGAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1351  
Db TGAGAGAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1839  
QY 1352 AGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1411  
Db AGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1899  
QY 1412 AGACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1471  
Db AGACCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1959  
QY 1472 AGTTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1531  
Db AGTTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2019  
QY 1532 GGAAG 1591  
Db GGAAG 2079  
QY 1592 GAGCTCTTCAACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1651  
Db GAGCTCTTCAACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2139  
QY 1652 TGTATTAATTAACAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1711  
Db TGTATTAATTAACAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2199  
QY 1712 GAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1771  
Db GAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2259  
QY 1772 CTGCTTAAAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1831  
Db CTGCTTAAAGAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2319  
QY 1832 GTATATTCAGAGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1891  
Db GTATATTCAGAGAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2379  
QY 1892 AGAAG 1951  
Db AGAAG 2439  
QY 1952 TGGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2011  
Db TGGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2499  
QY 2012 GGGTATTAATCAAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2058  
Db GGGTATTAATCAAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2546



QY 1832 GTATATTCACAGAGATGTTTCAGGTCGTGATCGAGAGAACTATGAGAGGTTGCA 1891  
DB 2320 ATATATTCACAGAGATGTTTCAGGTCGTGATCGAGAGAACTATGAGAGGTTGCA 2379  
QY 1892 AGAAGACGAACTGTTAAAGTGTATGACAAAGAGTTCTGTGTATTTATTCCTTG 1951  
DB 2380 AGAAGACGAACTGTTAAAGTGTATGACAAAGAGTTCTGTGTATTTATTCCTTG 2439  
QY 1952 TGGTCATCTGTGTATGACAAAGTGTGCTCTCTTCTTAAAGAAATGCTTATTTGACG 2011  
DB 2440 TGGTCATCTGTGTATGACAAAGTGTGCTCTCTTCTTAAAGAAATGCTTATTTGACG 2499  
QY 2012 GGGTATATTCAGAGTATGTTGTCATTTCTCTTAAAGAAAT 2058  
DB 2500 GAGTACATCAAGGATGACGTTGTCATTTCTTCAAGAAAGAA 2546

RESULT 15  
US-10-197-290-1

/ Sequence 1, Application US/10197290  
/ Publication No. US2003083300A1  
/ GENERAL INFORMATION:  
/ APPLICANT: C. Frank Bennett  
/ APPLICANT: Elizabeth J. Ackermann  
/ APPLICANT: Lex M. Cowseart  
/ TITLE OF INVENTION: ANTISENSE MODULATION OF CELLULAR INHIBITOR OF APOPTOSIS-2  
/ TITLE OF INVENTION: EXPRESSION  
/ FILE REFERENCE: RISP-0421  
/ CURRENT APPLICATION NUMBER: US/10/197,290  
/ CURRENT FILING DATE: 2002-07-16  
/ PRIOR APPLICATION NUMBER: 09/857,299  
/ PRIOR FILING DATE: 2001-20-04  
/ PRIOR APPLICATION NUMBER: PCT/US99/22083  
/ PRIOR FILING DATE: 1999-09-23  
/ NUMBER OF SEQ ID NOS: 47  
/ SEQ ID NO 1  
/ LENGTH: 3076  
/ TYPE: DNA  
/ ORGANISM: Homo sapiens  
/ FEATURE:  
/ NAME/KEY: CDS  
/ LOCATION: (725) .. (2539)  
US-10-197-290-1

Query Match 44.7%; Score 1157; DB 14; Length 3076;  
Best Local Similarity 77.3%; Pred. No. 1.4e-23;  
Matches 1474; Conservative 0; Mismatches 415; Indels 18; Gaps 5;

QY 170 TATCAACACAGCTGTCACCTACTCTGACAAACCTGCTCC-----AAAGACTTT 223  
DB 640 TATTAACCTGATTAAGCAAGGCAATGACAAACCTGCTCCCTAGAGAAAGGCTAGTC 699  
QY 224 CCCAGGCTCCTGATCAAAACATTAAGATATTAAGATGACAGATCTTGTGCA 283  
DB 700 CTTTCTTCCCATTCATTTATTAAGATGATGAGAAACAGCATATTTTATCAAA 759  
QY 284 TTGACAAACAG---CAACAAACAAATAAGATGATGATTTTCTGTGACTTACAG 340  
DB 760 TTGATGAAAGCGCAACAGTTTGAATGAAATAGCATGTGATGATGATGATGATG 819  
QY 341 AATGTCATCAATTAACCTTCCCGCGGGGTCCTGTGAGAAAGATCTTGTGCTG 400  
DB 820 AATGTCATCAATTAACCTTCCCGCGGGGTCCTGTGAGAAAGATCTTGTGCTG 879  
QY 401 TGGTGTATTTATTAATCTGTGTGATGACAAAGTCAATGCTTCTGTGTGCTGAT 460  
DB 880 TGGTGTATTTATTAATCTGTGTGATGACAAAGTCAATGCTTCTGTGTGCTGAT 939  
QY 461 GCTGTGATTAATCTGTGATGACAAAGTCTTATTAAGATTAAGATGATGATGATG 520  
DB 940 GCTGTGATTAATCTGTGATGACAAAGTCTTATTAAGATTAAGATGATGATGATG 999  
QY 521 CTGTGATTTATTAATCTGTGATGATGATGATGATGATGATGATGATGATGATG 577

DB 1000 CTGCAATTCGTTCAAGATCTTAAATTCGTTAAACATTTGAAAGTCACTTCAAGCTTAC 1059  
QY 578 GT---CTCCATAGAGAAACAGTTTTCACATTTATCTCCACCTTGAACATATGAG 634  
DB 1060 TTTTCTTCTTCAAGTAAACAAATTCACACATCTACTTCCGGGTACAGAAACAGTGG 1119  
QY 635 CTTTGTCAATGTTCTTACTTCAAGCTTCTTCAAAACCTCTTAAATCTTAAAGCACTTGA 694  
DB 1120 ATATTTCCGTGCTCTTATTAACATCTTCATCAATCTCTGTAACCTTCAAGGCAATCA 1179  
QY 695 AGACATCTCTATGAGAGACTTAACCTTCAAGTATGATGATGATGATGATGATGATGATG 754  
DB 1180 AGATTTTCTGCTTGTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1239  
QY 755 ATTTCTTACCTTACATATGATGATGATGATGATGATGATGATGATGATGATGATGATG 814  
DB 1240 ATTTACTTACTTTTCAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1299  
QY 815 TGGTTTTTATTAATTAAGACCTGAGATGATGATGATGATGATGATGATGATGATGATG 874  
DB 1300 AGGCTTTTCTTCAATTAAGACCTGAGATGATGATGATGATGATGATGATGATGATGATG 1359  
QY 875 CAGTAACTGAGAAACCAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 934  
DB 1360 GAGCAATTTGAGAAACCAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1419  
QY 935 TCCATTTTGGAAAT---TCTTGAACCTGAGTTTGAATTTCAATCTGAGCAT 991  
DB 1420 CCAATTTATTAAGAAATCAGCTTCAAGATGATGATGATGATGATGATGATGATGATGATG 1479  
QY 992 GCAACATGACAGCTTCAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1051  
DB 1480 GCAACATGACAGCTTCAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1539  
QY 1052 GCTGAGAGCTTGAAGTGTGTTTATTAATGATGATGATGATGATGATGATGATGATGATGATG 1111  
DB 1540 TCTGAGAGCTTGAAGTGTGTTTATTAATGATGATGATGATGATGATGATGATGATGATGATG 1599  
QY 1112 CTTTGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1171  
DB 1600 CTTTGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1659  
QY 1172 TGCAGATGTTTCCAGGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1231  
DB 1660 TGCAGATGTTTCCAGGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1719  
QY 1232 TGAATTTCAAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1291  
DB 1720 TCAAGTTCAAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1779  
QY 1292 TGAAGAGAAATGCTGACCAACATTTATTAATTTGACCTGAGAAAGTTCTTCAAG 1351  
DB 1780 AGAGATGAAATGACAGATCAATTAATTTGACCTGAGAAAGTTCTTCAAG 1839  
QY 1352 AGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1411  
DB 1840 AGATGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1899  
QY 1412 AGACCTGTTGAACCAAGTTCAAGTAAATCTGACCACTGAGAGAACTATTAAC 1471  
DB 1900 AGACCTGTTGAACCAAGTTCAAGTAAATCTGAGAACTGAGAGAACTATTAAC 1959  
QY 1472 AGTTAATGATTTGTGTCAGACTTCTAATGCTGAAGATGAGAAAGAGAGAGAA 1531  
DB 1960 AGTCAATGATCTTGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2019  
QY 1532 GGAAGAAACAGCTGAGAAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1591  
DB 2020 AGAAGAGCACTGAGAGAAAGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2079  
QY 1592 GGCTCTCTTCAACATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1651

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Db 2080 GGCACCTTTCCACATTTGACTGTGTATTCACATCCTGATAGTCTACTAATGCGCG 2139
QY 1652 TGTATTAATATAACAGAACATGATATTATTAAACAAAAACAGATACCTTTACAAGC 1711
Db 2140 AATTATTAAAGACAAAGACTGATGTTATTAAACAGAGACAGAGCTTTACAAGC 2199
QY 1712 GAGAGAACTGATTGATACCATTTGGTTAAAGAAATGCTAGCGCCACATCTTCAAAA 1771
Db 2200 AAGAGAACTGATTGATGATGATTTAGTAAAGAAATATTACAGCCACTGTATTCAGAA 2259
QY 1772 CTGCTAAAAGAAATTGACTCTACATGTATTAAGAACTTAATTGTGATTAAGAAATATGA 1831
Db 2260 CTCTCTGCAAGAGACTGAGCTGTATTAAGAGCAATTATTGTGCAACAGAGCATAA 2319
QY 1832 GTATATTCCAACAGAGATGTTTCAGGTCCTGCACTGAAATAACAATTGAGAGATTGCA 1891
Db 2320 ATATATTCACAGAAAGATGTTTCAGATCTACAGTGGAATAACAATTGCGGAGACTACA 2379
QY 1892 AGAAGAACGAACCTGTAAAGTGTATGACAAAGAAAGATTCTGTGTATTATTCCTTG 1951
Db 2380 AGAAGAAAGAACATGTAAAGTGTATGACAAAGAAAGTGCATAGTGTATTATTCCTTG 2439
QY 1952 TGGTCATCTGATGATGCAAGAAATGCGCCCTTCTTAAGAAATGCCCTATTGCGAG 2011
Db 2440 TGGTCATCTGATGATGCAAGAAATGCGCTCTTCTTTAAGAAAGTGCCTATTGTAG 2499
QY 2012 GGGTATTAATCAAGGATCTGTGTCATTTCTCTTAAAGAAAA 2058
Db 2500 GAGTACAATCAAGGATCAAGTGTGTACATTTCTTTCATGAAGAAGA 2546
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Job time : 824 secs